

SEQUENCE LISTING

<110> Frudakis, Tony N.
 Reed, Steven G.
 Smith, John M.
 Misher, Linda E.
 Dillon, Davin C.
 Retter, Marc W.
 Wang, Aijun
 Skeiky, Yasir A.W.

<120> COMPOSITIONS AND METHODS FOR THE
 THERAPY AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C9

<140> US

<141> 2000-06-08

<160> 324

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 363

<212> DNA

<213> Homo sapien

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cacctccagg aggcttatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc	240
catgctctta atttggcatt tgtgggctcag gcagccccag atagtaaaag gaaactccaa	300
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<210> 2

<211> 121

<212> PRT

<213> Homo sapien

<400> 2

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Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln	
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35 40 45	

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<210> 3
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<210> 6

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ctgggattac	aggcgtgcaa	caccacaccc	ggctaatttt	gtatttttaa	tagagatggg	180
gttttccctt	gttggccann	atgggtctcna	acccctgacc	tcnngtgatc	ccccncccn	240
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cnnnccnct	ncccnennnt	tnctntcnnn	tnccnncnn	ntcnncnnn	cnnnnctntn	420
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ctnntttnnn	cnnnnntctc	ntnccnttcn	nnccnntntn	cnnctcnenn	nnctttnttc	600
ccnccnnttc	cttnenctnt	nnntntcnnn	cnctcnnttc	ntttctect	nnntcccnnc	660
tcnnttcncc	cnnntccncc	ccccnctnt	ctctcncccn	nntnnnntnt	nnnctcncnc	720
tntcnenttc	ntcnntcnct	tnctntcnnc	nncnntcnnc	tnccntntnt	ctnnntcnenn	780
tnctntntcn	ccntccnttn	ctntctectn	tnccctccc	ctcnccctnct	cnttcnccnc	840
ccnntntntn	tnncccnnt	ncnncnncnc	cntcntttcn	tctctnctnn	nnntnnccctc	900
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cacagagaca	tgtgctgtgt	tgactcaagg	ttcaatggat	ttagggctat	gctttgttaa	240
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ccagggaac	aatacactgc	ggaaggccgc	agggacctct	gtctaggaaa	gccagggtatt	360
gtccaagatt	tctcccatg	tgatagcctg	agatatggcc	tcatgggaag	ggtaagacct	420
gactgtcccc	cagcccgaca	tccccagcc	cgacatcccc	cagcccgaca	cccgaaaagg	480
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ctctgtctcc	tgctcgtccc	tgggcaataa	aatgtcttgg	tgttaaacct	gaatgtatgt	600
tctacttact	gagaatagga	gaaaacatcc	ttagggctgg	aggtgagaca	ccctggcggc	660
atactgctct	ttaatgcacg	agatgtttgt	ntaattgcc	tccagggcc	nccctttcc	720
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<212> DNA
<213> Homo sapien
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<223> n = A,T,C or G
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<211> 1146
<212> DNA
<213> Homo sapien
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agactccatc	agtgaggtca	aagcctgggg	cttttcagag	aagggaggat	tatgggtttt	180
ccaattatac	aagtcagaag	tagaaagaag	ggacataaac	caggaagggg	gtggagcact	240
catcacccag	agggaactgt	gcctctctca	gtggtagtag	aggggctact	tcctcccacc	300
acggttgcaa	ccaagaggca	atgggtgatg	agcctacagg	ggacatancc	gaggagacat	360
gggatgaccc	taagggagta	ggctggtttt	aaggcggtgg	gactgggtga	gggaaactct	420
cctcttcttc	agagagaagc	agtacagggc	gagctgaacc	ggctgaaggt	cgaggcgaaa	480
acacggtctg	gotcaggaag	accttggaag	taaaattatg	aatgggtgcat	gaatggagcc	540
atggaagggg	tgtccttgac	caaactcagc	cattgatcaa	tgtagggaa	actgatcagg	600
gaagccggga	atttcattaa	caaccgcga	cacagcttga	acattgtgag	gttcagtgc	660
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ggaaaaggcc	cancccttac	caggctggaa	gaaattttnc	cttttttttt	tttttgaagg	840
cntttnttaa	attgaacctn	aattcncccc	cccaaaaaaa	aaccncncng	gggggcggat	900
ttccaaaaac	naattccctt	acaaaaaac	aaaaaccnc	ccttnttccc	ttcncacctn	960
ttctttta	tagggagaga	tnaagcccc	caatttcng	gncngatnn	gtttccccc	1020
ccccatttt	ccnaaacttt	ttcccancna	ggaancnc	ctttttttng	gtcngattna	1080
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<210> 10

<211> 545

<212> DNA

<213> Homo sapien

<400> 10

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tattggctct	gagttctgag	gccagttttc	ttcttctgtt	gagtatgcgg	gattgtcagg	180
cagatctggc	tgtggaaagg	agactgtggg	cagcaagttt	agaggcgtga	ctgaaagtca	240
cactgcatct	tgagctgctg	aatcagcttt	ctggttacca	cgggcaacag	ccgtgttttc	300
cttttgatgt	cctttacagt	ggattacagc	cacctgctga	ggtgagtagc	ccacgctcct	360
ggtagatggc	tccacgtaca	tgcacagtag	caaaggcgta	cctgctgtca	gtgttaacgt	420
taatatcctt	accccatcgg	agagcctgag	tgagggcgat	caattcagcc	cttttgtgct	480
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accgg						545

<210> 11

<211> 196

<212> DNA

<213> Homo sapien

<400> 11

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ctctacgaaa	aaataaaaaa	atgagcctgg	tgtagtggca	cacaccagct	gaggagggag	180
aatcgagcct	aggaga					196

<210> 12

<211> 388

<212> DNA

<223> n = A, T, C or G

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tgacaccaac	ttacactgtg	gntccaata	aactgcttct	ttcctattcc	ctctctatta	120
aataaaataa	ggaaaacgat	gtctgtgtat	agccaagtca	gntatcctaa	aaggagatac	180
taagtgacat	taaatatcag	aatgtaaaac	ctgggaacca	ggttcccagc	ctgggattaa	240
actgacagca	agaagactga	acagtactac	tgtgaaaagc	ccgaagnggc	aatatgttca	300
ctctaccgtt	gaaggatggc	tgggagaatg	aatgctctgt	ccccagtc	caagctcact	360
tactatacct	cctttatagc	ctaggaga				388

<213> Homo sapien

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acaagatatg	atttctacat	cagatgctct	ttccttttct	gtttattttcc	tttttatttc	180
ggttggtggg	tcgaatgtaa	tagctttgtt	tcaagagaga	gttttggcag	tttctgtagc	240
ttctgacact	gctcatgtct	ccaggcatct	atttgcactt	taggaggtgt	cgtgggagac	300
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<213> Homo sapien

<223> n = A,T,C or G

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aaaatcatat	ttcatatttt	acgctcgagg	gtttttaccg	gttccttttt	acactcctta	180
aaacagtttt	taagtcgttt	ggaacaagat	attttttctt	tcctggcagc	ttttaacatt	240
atagcaaatt	tgtgtctggg	ggactgctgg	tcactgtttc	tcacagttgc	aaatcaaggc	300
atgtgcaacc	aagaaaaaaa	aatttttttg	ttttatttga	aactggaccg	gataaaacggt	360
gtttggagcg	gctgctgtat	atagttttaa	atggttttatt	gcacctcctt	aagttgcact	420
tatgtggggg	ggggnntttg	natagaaagt	ntttantcac	anagtcacag	ggacttttnt	480
cttttggnna	ctgagctaaa	aagggtgnt	tttcgggtgg	gggcagatga	aggctcacag	540
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<220>  
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<210> 16
<211> 638
<212> DNA
<213> Homo sapien
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<220>  
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<222> (1)...(638)  
<223> n = A,T,C or G
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<210> 17
<211> 286
<212> DNA
<213> Homo sapien
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<400> 17

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 gtgcgcggcg attgggctgt ttatctcaaa caccgccacg gcggtgctga tggcgcttat 120
 tgccttagcg gcggcggaagt caatgggcgt ctaccctat ccttttgcca tggtggtggc 180
 gatggcggt tggcgggcgt ttatgacccc ggtctcctcg ccggttaaca ccctggtgct 240
 tggccctggc aagtactcat ttagcgattt tgtcaaaata ggcgtg 286

<210> 18
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 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 18
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 catatcacac ataactgcaa gtaaacattt cttaaagtgtg gttatgctca tgtcactcct 180
 gtgncaagaa atagtttcca ttaccgtctt aataaaattc ggatttgctt ttttctattn 240
 tcactcttca cctatgaccg aa 262

<210> 19
 <211> 261
 <212> DNA
 <213> Homo sapien

<400> 19
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 atttatgata aatgggtggc ggatttttat tataaacatg taccatgca aatttcctat 120
 aactctgaga tatattcttc tacatttaaa caataaaaaat aatctatttt taaaagccta 180
 atttgcttag ttaggtaaga gtgtttaatg agagggtata aggtataaat caccagtcaa 240
 cgtttctctg cctatgaccg a 261

<210> 20
 <211> 294
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

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 tcggactgag tatgaatctt gttgtgaaaa tactgcgcgc cttcgttcga cgacgtcgcg 180
 tcgaaatctt cgantcctt acgatcgaag tottcgtggg cgacgatcgc ggtcagttcc 240
 gccccaccga aatcatgggt gagccggatg ctgnccccga agnccctggt tgn 294

<210> 24

<211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (264)
 <223> n = A,T,C or G

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 ttaactttcc aatcgcattg acatgttaga cttatatttct gttaatgatt nctattttta 180
 ttaaattgga ttgagaaat tggttnttat tatatcaatt ttggtattt gttgagtttg 240
 acattatagc ttagtatgtg acca 264

<210> 25
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (376)
 <223> n = A,T,C or G

<400> 25
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 gtcaagggtg catgagtcac gattgtgccca ctgcactcca gcttgggtga cagaccgaga 180
 cctgcctca anaganaang aataggaagt tcagaaatcn tggntgtggn gccagcaat 240
 ctgcatctat ncaaccctg caggcaangc tgatgcagcc tangttcaag agctgctgtt 300
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 gtcctccgtn tgnac 376

<210> 26
 <211> 372
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (372)
 <223> n = A,T,C or G

<400> 26
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 ggtcaagggt gcatgagtc tgatgcgccc actgcactcc agcctgggtg acagactgag 180
 accctgcctc aaaagaaaaa gaataggaag ttcagaaacc ctgggtgtgg ngcccagcaa 240
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<210> 27  
<211> 477  
<212> DNA  
<213> Homo sapien
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<210> 28
<211> 438
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (438)
<223> n = A,T,C or G
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<210> 29
<211> 620
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(620)
<223> n = A,T,C or G
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<400> 29
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agaagtcaaa aattgagttt tgggatactc agcctagatt tcagaggata taaagaaaca 120

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<210> 30
<211> 100
<212> DNA
<213> Homo sapien
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```
<210> 31
<211> 762
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G
```

```
<210> 32
<211> 276
<212> DNA
<213> Homo sapien
```

<400> 32
tagtctatgc gtgtattaac ctccccctccc tcagtaacaa ccaaagaggc aggagctggt 60

```
<210> 33
<211> 477
<212> DNA
<213> Homo sapien
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```
<210> 34
<211> 631
<212> DNA
<213> Homo sapien
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<210> 35
<211> 578
<212> DNA
<213> Homo sapien
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<400> 35							
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actgatacca	tgaaacctac	ttggagcaga	cattgcacag	ttttctgtgg	taaaaactaa		180
aggtttattt	gctaagctgt	catcttatgc	ttagtatttt	ttttttacag	tggggaattg		240
ctgagattac	attttgttat	tcattagata	ctttgggata	acttgacact	gtcttctttt		300
tttcgctttt	aattgctatc	atcatgcttt	tgaacaaga	acacattagt	cctcaagtat		360
tacataagct	tgcttgttac	gcctgggtgg	ttaaaggact	atctttggcc	tcaggttcac		420

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<210> 36
<211> 583
<212> DNA
<213> Homo sapien
```

```
<210> 37
<211> 716
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G
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<210> 38
<211> 688
<212> DNA
<213> Homo sapien
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<221> misc_feature
 <222> (1)...(688)
 <223> n = A,T,C or G

<400> 38
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 tccattttta ccaggatcac accaggaaac tgaagggtga ttttttttta ccttaaaaaa 120
 aaaaaaaaa accaaacaaa ccaaaacaga ttaacagcaa agagttctaa aaaatttaca 180
 tttctcttac aactgtcatt cagagaacaa tagttcttaa gtctgttaaa tcttggcatt 240
 aacagagaaa cttgatgaan agttgtactt ggaatattgt ggattttttt ttttgtctaa 300
 tctcccccta ttgttttgcc aacagtaatt taagtttggt tggaacatcc ccgtagtga 360
 agtgtaaaca atgtatagga aggaatatat gataagatga tgcacacat atgcattaca 420
 tgtagggacc ttcacaactt catgcactca gaaaacatgc ttgaagagga ggagaggacg 480
 gccagggtc accatccagg tgccttgagg acagagaatg cagaagtggc actgttgaaa 540
 tttagaagac catgtgtgaa tggtttcagg cctgggatgt ttgccaccaa gaagtgcctc 600
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 acgaagaaaa tgaaattctg ccctttcc 688

<210> 39
 <211> 585
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(585)
 <223> n = A,T,C or G

<400> 39
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 gggtagtcct atgtgctaca gagagatggt agcattttaa gtgcatantt ttatgtattt 120
 tgacaaatgc atatncctct ataatccaca actgattacg aagctattac aattaaaaag 180
 tttggccggg cgtgggtggg ggtggctgac gctgtaatc ccagcacttt gggaggccga 240
 ggcacgcgga tcacgaggtc gggagttcaa gaccatcctg gctaacacgg tgaaagtcca 300
 tctctactaa aaatacga aaattacccc ggcgtgggtg cgggcgcctg tagtcccagc 360
 tactccggag gctgaggcag gagaatggcg tgaaccagg acacggagct tgcagtgtgc 420
 caacatcacg tactgccct ccagcctggg ggacaggaaac aagantcccg tctcanaaa 480
 agaaaaatac tactnatant ttcnacttta ttttaantta cacagaactn cctcttggtg 540
 ccccttacc attcatctca cccacctcct atagggcacn nctaa 585

<210> 40
 <211> 475
 <212> DNA
 <213> Homo sapien

<400> 40
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 taacatgtat tttatggacc aaattgacat tttcgactgt tttttccaaa aaagtcagg 120
 gaatttcagc aactgagtt gggaatttct tatcccagaa gaccaaccaa tttcatattt 180
 atttaagatt gattccatac tccgttttca aggagaatcc ctgcagtctc cttaaaggta 240
 gaacaaatac ttctattttt tttttcacca ttgtgggatt ggactttaag aggtgactct 300

aaaaaaacag agaacaaata tgtctcagtt gtattaagca cggacccata ttatcatatt 360
 cacttaaaaa aatgatttcc tgtgcacctt ttggcaactt ctcttttcaa ttaggggaaa 420
 aacttagtca ccctgaaaac ccacaaaata aataaaactt gtagatgtgg acaga 475

<210> 41
 <211> 423
 <212> DNA
 <213> Homo sapien

<400> 41
 taagagggtta catcgggtaa gaacgtaggc acatctagag cttagagaag tctggggtag 60
 gaaaaaaatc taagtattta taagggtata ggtaacattt aaaagtaggg ctactgaca 120
 ttatttagaa agaacacata cggagagata agggcaaagg actaagacca gaggaacact 180
 aatatttagt gatcacttcc attcttggtta aaaatagtaa cttttaagtt agcttcaagg 240
 aagatttttg gccatgatta gttgtcaaaa gttagtcttc ttgggtttat attactaatt 300
 ttgttttaag atccttggtta gtgctttaat aaagtcagtg tatatcaaac gctctaaaaac 360
 attgtagcat gttaaatgtc acaatatact taccatttgt tgtatatggc tgtaccctct 420
 cta 423

<210> 42
 <211> 527
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(527)
 <223> n = A,T,C or G

<400> 42
 tctcctaggc taatgtgtgt gtttctgtaa aagtaaaaag ttaaaaattt taaaaataga 60
 aaaaagctta tagaataaga atatgaagaa agaaaatatt ttgtacatt tgcacaatga 120
 gtttatgttt taagctaagt gttattacaa aagagccaaa aagggtttta aaattaaaac 180
 gtttgtaaag ttacagtacc cttatgttaa ttataaattg aagaaagaaa aacttttttt 240
 tataaatgta gtgtagccta agcatacagt atttataaag tctggcagtg ttcaataatg 300
 tcttaggcct tcacattcac tcaactgact acccagagca acttccagtc ctgtaagctc 360
 cattcgtggc aagtgccta tacaggtgca ccatttattt tacagtattt ttactgtacc 420
 ttctctatgt ttccatatgt ttogatatac aaataccact gggtactatn gccnaccagg 480
 taattccagt aacacggcct gtatacgtct ggtancccta gngaaga 527

<210> 43
 <211> 331
 <212> DNA
 <213> Homo sapien

<400> 43
 tcttcaacct cgtaggacaa ctctcatatg cctgggcact atttttaggt tactaccttg 60
 gctgcccttc ttttaagaaa aaaaaagaag aaaaaagaac tttccacaa gtttctcttc 120
 ctctagttag aaaattagag aaatcatggt ttttaatttg tggtatttca gatcacaat 180
 tcaaacactt gtaaacatta agcttctgtt caatccccctg ggaagaggat tcattctgat 240
 atttacgggt caaaagaagt tgtaaatatt tgcttggaac acagagaacc agttattaac 300

005093-030950

331

```
<210> 44
<211> 592
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(592)
<223> n = A,T,C or G
```

<400> 44						
ggcttagtag	ttgccaggca	aaatarcgtt	gattctcctc	aggagccacc	cccaacaccc	60
ctgtttgctt	ctagacctat	acctagacta	aagtcccagc	agaccacctag	agggtgagggt	120
cagagtgacc	cttgaggaga	tgtgctacac	tagaaaagaa	ctgcttgagt	tttctaattt	180
atataagcag	aaatctggag	aagagtcata	ggaatggata	ttaagggtgt	gagataatgg	240
cggaaggaat	atagagttgg	atcaggctgg	acttattgat	ttgaacccac	taagtataga	300
ttctgctttt	gatgttgcag	ctcaggggagt	taaaaaaggt	tttaatgggt	ctaatagttt	360
atttgcttgg	ttagctgaaa	tatggataaa	agatggccca	ctgtgagcaa	gctggaaatg	420
cctgatctct	ctcagtttaa	tgtataggaa	gggatccaaa	agtttagggga	ganttggatg	480
ctggrakttg	attggctact	ttgrgaccta	cccwttccag	ctggggagggt	ccagaagata	540
cacccttgac	caacgctttg	cgaaatggat	ttgtgatggc	ggcaactact	aa	592

```
<210> 45
<211> 567
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (567)
<223> n = A,T,C or G
```

<400> 45						
ggcttagtag	ttgccattgc	gagtgccttgc	tcaacgagcg	ttgaacatgg	cggattgtct	60
agattcaacg	gatttgagtt	ttaccagcaa	agcgaaccaa	gcgcggccca	gagaattatg	120
ggttggttgg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	ccttcttgca	180
gaacagttgg	ttctcgggcg	aacgctcatc	aagatgcccc	ttggaaaggc	tagcgtgtat	240
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttggacagt	gacaaaagat	300
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactctac	360
ttatactgtg	aggaatgata	gccaaagggtg	gggactttaa	gactaagggtg	gtttgtactt	420
gcgccgatga	tcccaggcag	aaagaaagctg	tcgtagtttt	tatacgggca	actactaagc	480
cgaattccag	cacactggcg	gccgttacta	attggatccg	anctcggtac	cagcttgatg	540
catasccttga	gtttwtctata	ntgtcnc				567

```
<210> 46
<211> 908
<212> DNA
<213> Homo sapien
```

<400> 46

```
<210> 47
<211> 480
<212> DNA
<213> Homo sapien
```

<400> 47

```
<210> 48
<211> 591
<212> DNA
<213> Homo sapien
```

<400> 48

aagagggtac cgagtggaat ttccgcttca ctagtctggt gtggctagtc ggtttcgtgg 60
tggccaacat tacgaacttc caactcaacc gttcttggac gttcaagcgg gagtaccggc 120

gaggatggtg gcgtgaattc tggcctttct ttgccgtggg atcggtagcc gccatcatcg 180
 gtatgtttat caagatcttc tttaactaac cgacctctcc gatttacctg cccgagccgt 240
 ggtttaacga ggggaggggg atccagtcac gcgagtactg gtcccagatc ttcgccatcg 300
 tcgtgacaat gcctatcaac ttcgtcgtca ataagttgtg gaccttccga acggtgaagc 360
 actccgaaaa cgtecggttg ctgctgtgcy gtgactccca aaatcttgat aacaacaagg 420
 taaccgaatc gcgctaagga accccggcat ctcggttact ctgcatatgc gtaccctta 480
 agccgaattc cagcacactg gcggccgtta ctaattggat ccgaactccg taaccaagcc 540
 tgatgcgtaa cttgagttat tctatagtgt ccctaaaata acctggcggt a 591

<210> 49

<211> 454

<212> DNA

<213> Homo sapien

<400> 49

aagagggtag ctgccttgaa atttaaattgt ctaaggaaar tgggagatga ttaagagttg 60
 gtgtggcyta gtcacaccaa aatgtattta ttacatcctg ctcccttcta gttgacagga 120
 aagaaagctg ctgtggggaa aggagggata aatactgaag ggatttacta aacaaatgtc 180
 catcacagag ttttccctttt tttttttttg agacagagtc ttgctctgtc acccaggctg 240
 gaatgaagwg gtatgatctc agttgaatgc aacctctacc tcctagggtc aagcgattct 300
 catgcctcag cctcctgagc agctgggact ataggcgcat gctaccatgc caggctaatt 360
 tttatatttt tattagagac ggggtgttgc catgttggcc aggcaggtct cgaactcctg 420
 ggcctcagat gatctgcccc accgtaccct cttta 454

<210> 50

<211> 463

<212> DNA

<213> Homo sapien

<400> 50

aagagggtag caaaaaaaag aaaaaggaaa aaaagaaaaa caacttgat aaggctttct 60
 gctgcataca gctttttttt tttaaataaa tgggtgccaac aaatgttttt gcattcacac 120
 caattgctgg ttttgaaatc gtactcttca aaggatattg tgcagatcaa tccaatagt 180
 atgccccgta ggttttgtgg actgcccacg ttgtctacct tctcatgtag gagccattga 240
 gagactgttt ggacatgcct gtgttcatgt agccgtgatg tccggggggc gtgtacatca 300
 tgttaccgtg ggggtggggtc tgcattggct gctgggcata tggctgggtg cccatcatgc 360
 ccatctgcat ctgcataggg tattggggcg tttgatccat atagccatga ttgctgtggt 420
 agccactgtt catcattggc tgggacatgc tgttaccctc tta 463

<210> 51

<211> 399

<212> DNA

<213> Homo sapien

<400> 51

cttcaacctc ccaaagtgtc gggattacag gactgagcca ccacgctcag cctaagcctc 60
 tttttcacta ccctctaagc gatctaccac agtgatgagg ggctaaagag cagtgaatt 120
 tgattacaat aatggaactt agatttatta attaacaatt tttccttagc atgttggttc 180
 cataattatt aagagtatgg acttacttag aaatgagctt tcatttttaag aatttcattc 240
 ttgaccttct ctattagtct gagcagtatg acactatacg tatttttatt aactaaccta 300
 ccttgagcta ttacttttta aaaggctata tacatgaatg tgtattgtca actgtaaagc 360

399

```
<210> 52
<211> 392
<212> DNA
<213> Homo sapien
```

<400> 52					
cttcaacctc	aatcaacctt	ggtaattgat	aaaatcatca	cttaactttc	tgatataatg 60
gcaataatta	tctgagaaaa	aaaagtgggtg	aaagattaaa	cttgcatttc	tctcagaatc 120
ttgaaggata	tttgaataat	tcaaaagcgg	aatcagtagt	atcagccgaa	gaaactcact 180
tagctagaac	gttggaacca	tggatctaag	tccttgccct	tccactaacc	agctgattgg 240
ttttgtgtaa	acctcctaca	cgcttgggct	tggtcgccct	atttgtaaaa	gtaaaggctg 300
aaataggaag	ataatgaacc	gtgtcttttt	ggtctctttt	ccatccatta	ctctgatttt 360
acaaaagagg	ctgtattccc	ctggtgaggt	tg		392

```
<210> 53
<211> 179
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (179)
<223> n = A,T,C or G
```

<400>	53						
ttcgggtgat	gctcctcag	gctacagtga	agactggatt	acagaaaggt	gccagcgaga		60
tttcagattc	ctgtaaacct	ctaaagaaaa	ggagtcgcgc	ctcaactgat	gtagaaatga		120
ctagtccagc	atacngagac	acntctgact	ccgattctag	aggactgagt	gacctgcan		179

```
<210> 54
<211> 112
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(112)
<223> n = A,T,C or G
```

```

<400> 54
ttcgggtgat gctcctcag gctacatcat natagaagca aagtagaana atcnnngtttg      60
tgcattttcc cacanacaaa attcaaata ntggaagaaa ttggganagt at                112

```

```
<210> 55
<211> 225
<212> DNA
<213> Homo sapien
```

<400> 55

```
<210> 56
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 57
<211> 223
<212> DNA
<213> Homo sapien
```

```
<210> 58
<211> 211
<212> DNA
<213> Homo sapien
```

```
<210> 59
<211> 208
<212> DNA
<213> Homo sapien
```

```
<210> 60
<211> 171
<212> DNA
```

gcactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcatccttgt 60

```
<210> 65
<211> 203
<212> DNA
<213> Homo sapien
```

```
<210> 66
<211> 344
<212> DNA
<213> Homo sapien
```

```
<210> 67
<211> 157
<212> DNA
<213> Homo sapien
```

```
<210> 68
<211> 137
<212> DNA
<213> Homo sapien
```

<210> 69
<211> 137

gcaactgagag gaacttccaa tacyatkatc agagtgaaca rgcarccyac agaacaggag 60
aaaatgttyg caatctctcc atctgacaaa aggctaatat ccagawtcta awaggaactt 120
aaacaaattt atgagaaaaag aacaracaac ctcawcaaaa agtgggtgaa ggawatgcts 180

```
<210> 73
<211> 321
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(321)
<223> n = A,T,C or G
```

```
<210> 74
<211> 321
<212> DNA
<213> Homo sapien
```

```
<210> 75
<211> 317
<212> DNA
<213> Homo sapien
```

<210>	76
<211>	244
<212>	DNA

taagagggta	ccagcagaaa	ggtagtatc	atcagatagc	atcttatacg	agtaatatgc	60
ctgctatttg	aagtgttaatt	gagaaggaaa	attttagcgt	gctcactgac	ctgcctgtag	120
ccccagtgac	agctaggatg	tgcattctcc	agccatcaag	agactgagtc	aagttgttcc	180
ttaagtcaga	acagcagact	cagctctgac	attctgattc	gaatgacact	gttcaggaat	240
cggaatcctg	tcgattagac	tggacagcgt	gtggcaagtg	aatttgcttg	taacaagcca	300
gatttttttaa	aatttatatt	gtaaataatg	tgtgtgtgtg	tgtgtgtata	tatatatata	360

406

```
<210> 80
<211> 327
<212> DNA
<213> Homo sapien
```

<400>	80						
tttttttttt	tttactcggc	tcagtcta	at	cctttttgta	gtcactcata	ggccagactt	60
agggctagga	tgatgattaa	taagagggat		gacataacta	ttagtggcag	gttagttggt	120
tgtagggctc	atggtagggg	taaaaggagg		gcaatttcta	gatcaaataa	taagaaggta	180
atagctacta	agaagaattt	tatggagaaa		gggacgcggg	cgggggatat	agggtcgaag	240
ccgcactcgt	aaggggtgga	tttttctatg		tagccgttga	gttgtggtag	tcaaaatgta	300
ataattatta	gtagtaagcc	taggaga					327

```
<210> 81
<211> 318
<212> DNA
<213> Homo sapien
```

<400>	81						
tagtctatgc	ggttgattcg	gcaatccatt	atttgctgga	ttttgtcatg	tgttttgcca		60
attgcattca	taatttatta	tgcatttatg	cttgtatctc	ctaagtcatg	gtatataatc		120
catgcttttt	atgttttgtc	tgacataaac	tcttatcaga	gccctttgca	cacagggatt		180
caataaatat	taacacagtc	tacatttatt	tggtgaatat	tgcatactcg	ctgtactgaa		240
agcacattaa	gtaacaaagg	caagtgagaa	gaatgaaaag	cactactcac	aacagttatc		300
atgattgcgc	atagacta						318

```
<210> 82
<211> 338
<212> DNA
<213> Homo sapien
```

<400> 82						
tcttcaacct	ctactcccac	taatagcttt	ttgatgactt	ctagcaagcc	tcgctaacct	60
cgccttacc	cccactatta	acctactggg	agaactctct	gtgctagtaa	ccacgttctc	120
ctgatcaaat	atcactctcc	tacttacagg	actcaacata	ctagtccag	ccctatactc	180
cctctacata	tttaccacaa	cacaatgggg	ctcactcacc	caccacatta	acaacataaa	240
accctcattc	acacgagaaa	acaccctcat	gttcatacac	ctatccccca	ttctcctcct	300
atccctcaac	cccgacatca	ttaccggggt	ttctctct			338

```
<210> 83
<211> 111
<212> DNA
<213> Homo sapien
```

```

<400> 83
agccatttac cacccatcca caaaaaaaaaa aaaaaaaaaag aaaaatatca aggaataaaa      60
atagactttg aacaaaaagg aacatttgct ggctgagga ggcatacccc g                    111

```

<210> 84

<400> 84

```
<210> 85
<211> 348
<212> DNA
<213> Homo sapien
```

<400> 85

gcactgagag	gaacttcggt	ggaaacgggt	ttttttcatg	taaggctaga	cagaagaatt	60
ctcagtaact	tccttggtgt	gtgtgtattc	aactcacasa	gtgaacgat	cctttacaca	120
gagcagactt	gtaacactct	twttgtggaa	tttgcaagtg	gagatttcag	scgctttgaa	180
gtsaaaggta	gaaaaggaaa	tatcttccta	taaaaactag	acagaatgat	tctcagaaac	240
tcctttgtga	tgtgtgcggt	caactcacag	agtttaacct	ttcwtttcat	agaagcagtt	300
aggaaacact	ctgtttgtaa	agtctgcaag	tggatagaga	ccctaacg		348

```
<210> 86
<211> 293
<212> DNA
<213> Homo sapien
```

<400> 86

gcactgagag	gaacttcytt	gtgwtgktg	yattcaactc	acagagttga	asswtsmttt	60
acabagwkca	ggcttkcaaa	cactcttttt	gtmgaatytg	caagwggaka	tttsrrccrc	120
tttgwggycw	wysktmgaaw	mgrwatatc	ttcwyatmra	amctagacag	aaksattctc	180
akaawstyyy	ytgtgawgws	tgerttcaac	tcacagagkt	kaacmwtyct	kytsatrgag	240
cagttwkga	actctmtttc	tttggattct	gcaagtggat	agagacccta	acg	293

```
<210> 87
<211> 10
<212> DNA
<213> Artificial Sequence
```

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 87

ctcctaggct 10

```
<210> 88
<211> 10
<212> DNA
<213> Artificial Sequence
```

<220>		
<223>	Primer for amplification from breast tumor cDNA	
<400>	88	
agtagttgcc		10
<210>	89	
<211>	11	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Primer for amplification from breast tumor cDNA	
<400>	89	
ttccggttatg c		11
<210>	90	
<211>	10	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Primer for amplification from breast tumor cDNA	
<400>	90	
tggttaaaggg		10
<210>	91	
<211>	10	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Primer for amplification from breast tumor cDNA	
<400>	91	
tcggtcatag		10
<210>	92	
<211>	10	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Primer for amplification from breast tumor cDNA	
<400>	92	
tacaacgagg		10
<210>	93	

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 94
<211> 10
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 95
<211> 10
<212> DNA
<213> Artificial Sequence
```

<223> Primer for amplification from breast tumor cDNA

```
<210> 96
<211> 10
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

```

      <400> 96
ggaaccaatc                                     10

```

```
<210> 97
<211> 10
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

10

<223> Primer for amplification from breast tumor cDNA

10

```
<210> 103
<211> 10
<212> DNA
<213> Artificial Sequence
```

<223> Primer for amplification from breast tumor cDNA

10

```
<210> 104
<211> 20
<212> DNA
<213> Artificial Sequence
```

<223> Primer for amplification from breast tumor cDNA

20

```
<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence
```

<223> Primer for amplification from breast tumor cDNA

20

```
<210> 106
<211> 20
<212> DNA
<213> Artificial Sequence
```

<223> Primer for amplification from breast tumor cDNA

20

<210> 107
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 107
 gacttagtgg aaagaatgta 20

<210> 108
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 108
 gtaattccgc caaccgtagt 20

<210> 109
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 109
 atggttgatc gatagtggaa 20

<210> 110
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

<400> 110
 acggggaccc ctgcattgag 20

<210> 111
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

DESeq2 = FDR < 0.05

```
<210> 112
<211> 20
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence
```

<220>
<223> Primer for amplification from breast tumor cDNA

<210>	116
<211>	20
<212>	DNA

20

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 122
<211> 20
<212> DNA
<213> Artificial Sequence
```

<400> 122
gacgcttggc cacttgacac 20

<220>
<223> Primer for amplification from breast tumor cDNA

```
<210> 124
<211> 20
<212> DNA
<213> Artificial Sequence
```

<400> 124	
tagtgacatt acgacgctgg	20

<220>

<400> 125	20
cgggatgatgc ctcctcaggc	
<210> 126	
<211> 23	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer for amplification from breast tumor cDNA	
<400> 126	23
atggctatatt tcgggggctg aca	
<210> 127	
<211> 22	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer for amplification from breast tumor cDNA	
<400> 127	22
ccggtatctc ctctgggta tt	
<210> 128	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer for amplification from breast tumor cDNA	
<400> 128	18
ctgcctgagc cacaagt	
<210> 129	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primer for amplification from breast tumor cDNA	
<400> 129	24
ccggaggagg aagctagagg aata	
<210> 130	
<211> 14	

<220>
<223> Primer

14

```
<210> 131
<211> 18
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Predicited Th Motifs (B-cell epitopes)

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      <400> 131
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<220>
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<400> 134

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<400> 135

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<210> 136
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<211> 9

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<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

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<220>

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<210> 141

<211> 9388

<212> DNA

<213> Homo sapien

<400> 141

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aaataaatct ttgtggtttc agatattttag ctatagcaga tcagggtgac taagagaaac 180
cccataagag ttacatactc attaatctcc gtctctatcc ccagggtctca gatgctggac 240
aagggtgtca 249

<210> 149
<211> 255

<213> Homo sapien

tgacaccttg	tccagcatct	gctattttgt	gactttttta	taatagccat	tctgactggt	60
gtgagatggt	aactcattgt	gggtttggtc	tgcattttct	taatgatcag	tgatattaag	120
ctttttttta	atatgcttgt	tgaccacatg	tatatcatct	tttgagaagt	gtctgttcat	180
atcctttgcc	cactttttta	ttttttttat	ttgtaaattt	gtttaatttc	cttacagatg	240
ctggacaagg	tgtea					255

<213> Homo sapien

ttacgctgca	acactgtgga	ggccaagctg	ggatcacttc	ttcattctaa	ctggagagga	60
gggaagttca	agtcacagcag	aggggtgggtg	ggtagacagt	ggcactcaga	aatgtcagct	120
ggaccctgt	ccccgcatag	gcaggacagc	aaggctgtgg	ctctccaggg	ccagctgaag	180
aacaggacac	tgtctccgct	gccacaaagc	gtcagagact	cccattcttg	aagcacggcc	240
ttcttgggtct	tcctgcactt	ccctgtttctg	ttagagacct	ggttatagac	aaggcttctc	300
cacagtgttg	cagcgtaa					318

<213> Homo sapien

<223> n = A, T, C or G

<400>	151tnacgngcn acnntgtaga ganggnaagg cnttccccac attnccctt		
catnanagaa	60		
ttattcnacc	aagnntgacc	natgcennttt atgacttaca tgcnnactnc ntaatctgtg	120
tcnngcctta	aaagcnnntc	cactacatgc ntcancactg tntgtgtnac ntcatnaact	180
gtcngnaata	ggggcncata	actacagaaa tgcanttcac actgcttcca ntgccatcng	240
cgtgtggcct	tnccctactct	tcttntattc caagtagcat ctctggantg cttccccact	300
ctccacattg	ttgcagcnat	aat	323

<213> Homo sapien

tcaagagattcc	ataggctgac	cagtcgaagg	agagttgaaa	tcatgaagga	gagtcctatct	60
ggagagagcct	gtagttttga	gggttgcaaa	gacttaggat	ggagttggtg	gggtgtggtta	120
gtctctaagg	ttgattttgt	tcataaaattt	catgccttga	atgccttgct	tgctcaccc	180
tgggtccaagc	cttagtgaac	acctaaaagt	ctctgtcttc	ttgtctctcca	aacttctcct	240

```
<210> 153
<211> 332
<212> DNA
<213> Homo sapien
```

```
<210> 154
<211> 345
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G
```

```
<210> 155
<211> 295
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(295)  
<223> n = A,T,C or G
```

<400>	155					
gacgcttggc	cacttgacac	attaaacagt	tttgcataat	cactancatg	tattttctagt	60
ttgtgtgtctg	ctgtgatgcc	ctgccttgat	tctctggcgt	taatgatggc	aagcataatc	120
aaacgctgtt	ctgttaattc	caagttataa	ctggcattga	ttaaagcatt	atctttcaca	180
actaaactgt	tcttcatana	acagcccata	ttattatcaa	attaagagac	aatgtattcc	240
aatatccttt	anggccaaata	tattttnatgt	cccttaatta	agagctactg	tccgt	295

```
<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G
```

<400> 156						
gacgcttggc	cacttgacac	tgcagtggga	aaaccagcat	gagccgctgc	ccccaaggaa	60
cctcgaagcc	caggcagagg	accagccatc	ccagcctgca	ggtaaagtgt	gtcacctgtc	120
aggtgggctt	ggggtgagtg	gggtggggga	gtgtgtgtgc	aaagggggtg	tnaatgtnta	180
tgcgtgtgag	catgagtgat	ggctagtgtg	actgcatgtc	agggagtgtg	aacaagcgtg	240
cgggggtgtg	tgtgcaagtg	cgtatgcata	tgagaatatg	tgtctgtgga	tgagtgcatt	300
tgaaagtctg	tgtgtgtgcg	tgtgggtcatg	anggtaantt	antgactgcg	caggatgtgt	360
gagtgtgcat	ggaacactca	ntgtgtgtgt	caagtggcnn	ancgtc		406

```
<210> 157
<211> 208
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G
```

<400>	157					
tgacgcttg	ccacttgaca	cactaaaggg	tgttactcat	cactttcttc	tctcctcggt	60
ggcatgtgag	tgcattctatt	cacttggcac	tcatttggtt	ggcagtgact	gtaanccana	120
tctgatgcat	acaccagctt	gtaaattgaa	taaattgtctc	taatactatg	tgctcacaat	180
anqgtanqgg	tgaggagaag	gggagaga				208

```
<210> 158
<211> 547
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (547)
<223> n = A,T,C or G
```

<400> 158						
cttcaacctc	cttcaacctc	cttcaacctc	ctggattcaa	acaatcatcc	cacctcagac	60
tccttagtag	ctgagactac	agactcacgc	cactacatct	ggctaaattt	ttgtagagat	120
agggtttcat	catgttgccc	tggttggtct	caaactcctg	acctcaagca	atgtgcccac	180
ctcagcctcc	caaagtgotg	ggattacagg	cataagccac	catgcccagt	ccatntttta	240
tctttcctac	cacattotta	ccacactttc	ttttatgttt	agatacataa	atgcttacca	300

```
<210> 159
<211> 203
<212> DNA
<213> Homo sapien
```

```
<210> 160
<211> 402
<212> DNA
<213> Homo sapien
```

```
<210> 161
<211> 193
<212> DNA
<213> Homo sapien
```

```
<210> 162
<211> 147
<212> DNA
<213> Homo sapien
```

<400>	162					
tgttgagccc	agacactgac	caggagaaaa	accaaccaat	aaaaacaggc	ccggacataa	60
gacaaataat	aaaattagcg	gacaaggaca	tgaaaacagc	tattgtaaga	gcggatatag	120
tggtgtgtgt	ctgggctcaa	catgcta				147

<400> 163

<210> 164

<220>

<400> 164

<210> 165

<400> 165

<210> 166

```
<211> 427
<212> DNA
<213> Homo sapien
```

<400> 166

<211> 500

<213> Homo sapien

```
<221> misc_feature
```

<223> n = A, T, C or G

<400> 167

<211> 358

<213> Homo sapien

<400> 168

<211> 1265

<213> Homo sapien

<400> 169

aacatgtatt ttatggacca aattgacatt ttcgactatt ttttcccaaa aaaagtcagg 120
 tgaatttcag cacactgagt tgggaatttc ttatcccaga agwcggcacg agcaatttca 180
 tattttatta agattgattc catactccgt tttcaaggag aatccctgca gtctccttaa 240
 aggtagaaca aatactttct attttttttt caccattgtg ggattggact ttaagagggtg 300
 actctaaaaa aacagagaac aaatatgtct cagttgtatt aagcacggac ccatattatc 360
 atattcactt aaaaaaatga tttcctgtgc accttttggc aacttctctt ttcaatgtag 420
 ggaaaaactt agtcaccctg aaaaccacaa aaataaataa aacttgtaga tgtgggcaga 480
 argtttgggg gtggacattg tatgtgttta aattaaaccc tgtatcactg agaagctgtt 540
 gtatgggtca gagaaaatga atgcttagaa gctgttcaca tcttcaagag cagaagcaaa 600
 ccacatgtct cagctatatt attattttatt ttttatgcat aaagtgaatc atttcttctg 660
 tattaatttc caaagggttt taccctctat ttaaattgctt tgaaaaacag tgcattgaca 720
 atgggttgat atttttcttt aaaagaaaaa tataattatg aaagccaaga taatctgaag 780
 cctgttttat tttaaaactt tttatgttct gtggttgatg ttgtttgttt gttgttttct 840
 attttgttgg ttttttactt tgttttttgt tttgttttgt tttgttttdg catactacat 900
 gcagtttctt taaccaatgt ctgtttggct aatgtaatta aagttgttaa tttatatgag 960
 tgcatttcaa ctatgtcaat ggttttcttaa tttttattgt gtagaagtac tggtaatttt 1020
 tttattttaca atatgtttta agagataaca gtttgatatg ttttcatgtg tttatagcag 1080
 aagttattta tttctatggc attccagcgg atatttttgt gtttgcgagg catgcagtca 1140
 atattttgta cagtttagtg acagtattca gcaacgcctg atagcttctt tggccttatg 1200
 ttaataaaaa agacctgttt gggatgtaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
 aaaaaa 1265

<210> 170

<211> 383

<212> DNA

<213> Homo sapien

<400> 170

tgtaagtcca gcagtgtgat gacgatattc ttcttattaa tgtggtaatt gaacaaatga 60
 tctgtgatac tgatcctgag ctaggaggcg ctgttcagtt aatgggactt cttegtactc 120
 taattgatcc agagaacatg ctggctacaa ctaataaaac cgaaaaaagt gaattttctaa 180
 attttttcta caaccattgt atgcatgttc tcacagcacc acttttgacc aatacttcag 240
 aagacaaatg tgaaaaggat aatatagttg gatcaaaca aaacaacaca atttgtccccg 300
 ataattatca aacagcacag ctacttgcct taattttaga gttactcaca ttttgtgtgg 360
 aacatcacac tgctcgactt aca 383

<210> 171

<211> 383

<212> DNA

<213> Homo sapien

<400> 171

tgggcacctt caatatcgca agttaaaaaat aatgttgagt ttattatact tttgacctgt 60
 ttagctcaac aggggtgaagg catgtaaaga atgtggactt ctgaggaatt ttctttttaa 120
 aagaacataa tgaagtaaca ttttaattac tcaaggacta cttttgggtg aagtttataa 180
 tctagatacc tctacttttt gtttttgcgt ttcgacagtt cacaaagacc ttcagcaatt 240
 tacagggtaa aatcgttgaa gtagtggagg tgaaactgaa attttaaatt attctgtaaa 300
 tactataggg aaagaggctg agcttagaat cttttgggtg ttcatgtgtt ctgtgctctt 360
 atcatcacac tgctcgactt aca 383

<210> 172

<211> 699
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(699)
 <223> n = A,T,C or G

<400> 172
 tcgggtgatg cctcctcagg cttgtcggtta gtgtacacag agctgctcat gaagcgacag 60
 cggctgcccc tggcacttca gaacctcttc ctctacactt ttgggtgcgt tctgaatcta 120
 ggtctgcatg ctggcgggcg ctctggccca ggctccttg aaagtttctc aggatgggca 180
 gcactcgtag tgctgagcca ggcactaaat ggactgctca tgtctgctgt catggagcat 240
 ggcagcagca tcacacgcct ctttgtgggtg tctgctcgc tgggtggtaa cgcctgctc 300
 tcagcagtc tgcacgggt gcagctcaca gccgccttct tctggccac attgctcatt 360
 ggctggcca tgcgcctgta ctatggcagc cgctagtccc tgacaacttc caccctgatt 420
 ccggaccctg tagattgggc gccaccacca gatccccctc ccaggccttc ctccctctcc 480
 catcagcggc cctgtaacaa gtgccttggtg agaaaagctg gagaagttag ggcagccagg 540
 ttattctctg gaggttggtg gatgaagggg tacccttagg agatgtgaag tgtgggtttg 600
 gttaaggaaa tgcttaccat cccccacccc caaccaagtt nttccagact aaagaattaa 660
 ggtaacatca atacctaggc ctgaggaggc atcacccga 699

<210> 173
 <211> 701
 <212> DNA
 <213> Homo sapien

<400> 173
 tcgggtgatg cctcctcagg ccagatcaaa cttgggggttg aaaactgtgc aaagaaatca 60
 atgtcggaga aagaattttg caaaagaaaa atgcctaata agtactaatt taataggtca 120
 cattagcagt ggaagaagaa atgttgatat tttatgtcag ctattttata atcaccagag 180
 tgcttagctt catgtaagcc atctcgtatt cattagaaat aagaacaatt ttattcgtcg 240
 gaaagaactt ttcaatttat agcatcttaa ttgctcagga ttttaaattt tgataaagaa 300
 agctccactt ttggcaggag tagggggcag ggagagagga ggctccatcc acaaggacag 360
 agacaccagg gccagtaggg tagctggttg ctggatcagt cacaacggac tgacttatgc 420
 catgagaaga aacaacctcc aaatctcagt tgcttaatac aacacaagct catttcttgc 480
 tcacgttaca tgtcctatgt agatcaacag caggtgactc agggaccacg gctccatctc 540
 catatgagct tccatagtc caaggacacg ggctctgaaa gtgtcctcca tgcagggaca 600
 catgcctctt cctttcattg ggcagagcaa gtcacttatg gccagaagtc aactgcagg 660
 gcagtgccat cctgctgtat gcctgaggag gcatcacccg a 701

<210> 174
 <211> 700
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(700)
 <223> n = A,T,C or G

000000-000000

tgggtgatg	cctcctcang	cccctaaatc	agagtccagg	gtcagagcca	caggagacag	60
ggaaagacat	agattttaac	cggccccctt	caggagattc	tgaggctcag	ttcactttgt	120
tgcagtttg	acagaggcag	caaggctagt	ggttaggggc	acgggtctcta	aagctgcact	180
gcctggatct	gcctcccagc	tctgccagga	accagctgcg	tggccttgag	ctgctgacac	240
gcagaaagcc	ccctgtggac	ccagtctcct	cgtctgtaag	atgaggacag	gactctagga	300
accctttccc	ttggtttggc	ctcactttca	caggctccca	tcttgaactc	tatctactct	360
tttctgaaa	ccttgtaaaa	gaaaaaagtg	ctagcctggg	caacatggca	aaacctgtc	420
tctacaaaa	atacaaaaat	tagttgggtg	tggtggcatg	tgctgtagt	cccagccact	480
tgggaggtgc	tgaggtggga	ggatcacttg	agccggggag	gtggagggtt	cagtgaacca	540
agatcatgcc	actgcactcc	agcctgagta	atagagtaag	actctgtctc	aaaaacaaca	600
acaacaacag	tgagtgtgcc	tctgtttccg	ggttggtatg	ggcaccacat	ttatgcatct	660
ctcaqatttg	gacgctgcag	cctgaggagg	catcacccca			700

<213> Homo sapien

<223> n = A, T, C or G

tatagggccga	attggggcccg	agttgcatgn	tcccggccgc	catggccgcg	ggattcgggt	60
gatgcctct	caggcttgtc	tgccacaagc	tacttctctg	agctcagaaa	gtgccccttg	120
atgaggga	atgtcctact	gcactgcgaa	tttctcagtt	ccattttacc	tcccagtcct	180
ccttcta	aacagttaataa	attcattcca	caagtattta	ctgattacct	gcttggtgcca	240
gggactattc	tcaggctgaa	gaagggtggga	ggggagggcg	gaacctgagg	agccacctga	300
gccagcttta	tatttcaacc	atggctggcc	catctgagag	catctcccca	ctctcgccaa	360
cctatcgggg	catagcccag	ggatgcccc	aggcgccca	ggttagatgc	gtccctttgg	420
cttgtcagtg	atgacataca	ccttagctgc	ttagctggtg	ctggcctgag	gaggcatcac	480
ccga						484

<213> Homo sapien

tcggggtgatg	cctcctcagg	gctcaaggga	tgagaagtga	cttcttttctg	gagggaccgt	60
tcatgccacc	caggatgaaa	atggataggg	accacttg	aggacttgct	gatatgtttg	120
gacaaatgcc	aggtagcgga	attggtactg	gtccaggagt	tatccaggat	agattttcac	180
ccaccatggg	acgtcatcgt	tcaaataaac	tcttcaatgg	ccatgggggga	cacatcatgc	240
ctccacacaca	atcgcagttt	ggagagatgg	gaggcaagtt	tatgaaaagc	caggggctaa	300
gccagctcta	ccataaccag	agtcagggac	tcttatccca	gctgcaagga	cagtcgaagg	360
atatgccacc	tcggttttct	aagaaaggac	agcttaatgc	agatgagatt	agcctgagga	420
ggcatcaccc	ga					432

<400> 177

<210> 178

<211> 786

<212> DNA

<213> Homo sapien

<400> 178

tagcatgttg	agcccagaca	cctgtgtttc	tgggagctct	ggcagtggcg	gattcatagg	60
cacttgggct	gcactttgaa	tgacacactt	ggctttatta	gattcactag	tttttaaaaa	120
attgttggtc	gtttcttttc	attaaagggt	taatcagaca	gatcagacag	cataattttg	180
tatttaatga	cagaaacggt	ggtacatttc	ttcatgaatg	agcttgcatt	ctgaagcaag	240
agcctacaaa	aggcacttgt	tataaatgaa	agttctggct	ctagaggcca	gtactctgga	300
gtttcagagc	agccagtgat	tgttccagtc	agtgatgcct	agttatatag	aggaggagta	360
cactgtgcac	tcttctagggt	gtaagggtat	gcaactttgg	atcttaaaat	tctgtacaca	420
tacacacttt	atatatatgt	atgtatgtat	gaaaacatga	aattagtttg	tcaaatatgt	480
gtgtgttttag	tatttttagct	tagtgcaact	atttccacat	tattttattaa	attgatctaa	540
gacactttct	tgttgacacc	ttgaatatta	atgttcaagg	gtgcaatgtg	tattccttta	600
gattgttaaa	gcttaattac	tatgatttgt	agtaaattaa	cttttaaaat	gtatttgagc	660
ccttctgtag	tgtcgtagggt	ctcttacagg	gtgggaaaga	ttttaatttt	ccagttgcta	720
attgaacagt	atggcctcat	tatatatttt	gatttatagg	agtttggtgc	tgggctcaac	780
atgcta						786

<210> 179

<211> 796

<212> DNA

<213> Homo sapien

<400> 179

tagcatgttg	agcccagaca	ctggttacaa	gaccagacct	gcttcctcca	tatgtaaaca	60
gcttttaaaa	agccagtga	cctttttaat	actttggcaa	ccttctttca	caggcaaaga	120
acacccccat	ccgccccttg	tttggagtgc	agagtttggc	tttggttcct	tgccctgcct	180

```
<210> 180
<211> 488
<212> DNA
<213> Homo sapien
```

```
<210> 181
<211> 317
<212> DNA
<213> Homo sapien
```

```
<210> 182
<211> 507
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G
```

tagcatgttg	agcccagaca	ctggctgtta	gccaaatcct	ctctcagctg	ctccctgtgg	60
tttggtgact	caggattaca	gaggcatcct	gtttcagga	acaaaaagat	tttagctgcc	120
agcagagagc	accacataca	ttagaatggg	aaggactgcc	acctccttca	agaacaggag	180
tgaggggtgg	ggtgaatggg	aatggaagcc	tgcattccct	gatgcatttg	tgtctctctca	240
aatcctgtct	tagtcttagg	aaaggaagta	aagtttcaag	gacggttccg	aactgctttt	300
tgtgtctggg	ctcaacatgc	tatccgcgg	ccatggcggc	cgggagcatg	cgacgtcggg	360
ccaattcgc	cctatagtga	gtcgtattac	aattcactgg	ccgtcgtttt	acaacgtcgt	420
gactgggaaa	accctggcgt	tacccaactt	aatgccttg	cagcacatcc	ccctttccca	480
gctggcgtaa	tancgaaaag	gcccgcga				507

<213> Homo sapien

gatttacgct	gcaacactgt	ggaggtagcc	ctggagcaag	gcaggcatgg	atgcttctgc	60
aatcccaaaa	tgagcctgg	tatttcagcc	aggaatctga	gcagagcccc	ctctaattgt	120
gcaaatgata	agttattctc	tttgttcttc	aaccttccaa	tagccttgag	cttccagggg	180
agtgtcgta	atcattacag	cctgggtctc	acagtgttgc	agcgtaa		227

<213> Homo sapien

ttagctgtga	acactgtgga	gcagattaac	atcagacttt	tctatcaaca	tgactgggggt	60
tactaaaaag	acaacaaatc	aatggcttca	aaagtctaag	gaataatttc	gatacttcaa	120
ctttataaaa	cctgacaaaa	ctatcaatca	agcataaaga	cagatgaaga	acatttccag	180
atttttggcca	atcagatatt	ttacctccac	agtgttgcag	cgtaa		225

<213> Homo sapien

ggccccgacgt	cgcattgctcc	cggcccgccat	ggccgcggga	ttcggttaggg	tctctatcca	60
ctggggaccca	taggctagtc	agattattta	gagttgagtt	cctttctgct	tcccagaatt	120
tgaagaaaaa	ggagtgaggt	gatatagctg	agagatcaga	tttgccctctg	aagcctgttc	180
aagatgtatg	tgctcagacc	ccaccactgg	ggcctgtggg	tgagggtcctg	ggcatctatt	240
tgaatgaatt	gctgaagggg	agcactatgc	caaggaaggg	gaacccatcc	tggcactggc	300
acaggggtca	ccttatccag	tgctcagtg	ttctttgctg	ctacctgggt	ttctctcata	360
tgtgaggggc	aggtaagaag	aagtgcccr	tgttgtgcga	gttttagaac	atctaccagt	420
aagtggggaa	gtttcacaaa	gcagcagctt	tgttttgtgt	attttcacct	tcagttagaa	480
gaggaaggct	gtgagatgaa	tgttagttga	gtggaaaaga	cgggtaagct	tagtggatag	540
agaccctaac	gaatcactag	tgcggcgcgc	ttgcagggtcg	accatatggg	agagctc	597

<210> 186

<400> 186

```
<210> 187
<211> 324
<212> DNA
<213> Homo sapien
```

<400> 187

tcgttagggg	ctctatccac	ttgcaggtaa	aatccaatcc	tgtgtatatc	ttatagtctt	60
ccatatgtga	tgggttcaaga	gactgcagtt	ccagaaagac	tagccgagcc	catccatgtc	120
ttccacttaa	ccctgctttg	ggttacacat	cttaactttt	ctgttcaagt	ttctctgtgt	180
agtttatagc	atgagtattg	ggawaatgcc	ctgaaacctg	acatgagatc	tgggaaacac	240
aaacttactc	aataagaatt	tctcccatat	ttttatgatg	gaaaaatttc	acatgcacag	300
aggagtggat	agagacccta	acga				324

```
<210> 188
<211> 178
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (178)
<223> n = A,T,C or G
```

<400> 188

gcgcggggat	tcggggtgat	acctcctcat	gccaaaatac	aacgtntaat	ttcacaactt	60
gccttccaat	ttacgcattt	tcaatttgct	ctccccattt	gttgagtcac	aacaaacacc	120
attgcccaga	aacatgtatt	acctaacatg	cacatactct	taaaactact	catccctt	178

```
<210> 189
<211> 367
<212> DNA
<213> Homo sapien
```

<400> 189

tgacaccttg tccagcatct gacacagtct tggctcttgg aaaatattgg ataaatgaaa 60

```
<210> 190
<211> 369
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(369)
<223> n = A,T,C or G
```

```
<210> 191
<211> 369
<212> DNA
<213> Homo sapien
```

```
<210> 192
<211> 449
<212> DNA
<213> Homo sapien
```

<400> 192						
tgacgcttg	ccacttgaca	cttcattctt	gcacagaaaa	acttctttac	agattttaatt	60
caagactggt	ctagtgcacg	tcctccagac	atthttttcat	ttgttccata	tacgtggaat	120
tttaaaatca	tgtttcatca	gtttgaaatg	atthgggctg	ctaatacaaca	caattggatc	180
gactgttcta	ctaaacaaca	ggaaaatgtg	tatctggcag	cctgtggaga	aacactaaac	240
attgattttt	ctttgccttt	tacggacttt	gttccagcta	catgtaatac	caagttctct	300

```
<210> 193
<211> 372
<212> DNA
<213> Homo sapien
```

```
<210> 194
<211> 309
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(309)
<223> n = A,T,C or G
```

```
<210> 195
<211> 312
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(312)
<223> n = A,T,C or G
```

<400>	195						
tgacgcttg	ccacttgaca	cccaatctcg	cacttcatcc	tcccagcacc	tgatgaagta		60
ggactgcaac	tatccccact	tcccagatga	ggggaccaan	gtacacatta	ggacccggat		120
gggagcacag	atttgtcga	tcccagactc	caagcactca	gcgtcactcc	aggacagcgg		180
ctttcagata	aggtcacaaa	catgaatggc	tccgacaacc	ggagtcagtc	cgtgctgagt		240

```
<210> 196
<211> 288
<212> DNA
<213> Homo sapien
```

```
<210> 197
<211> 289
<212> DNA
<213> Homo sapien
```

```
<210> 198
<211> 288
<212> DNA
<213> Homo sapien
```

```
<210> 199
<211> 1027
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(1027)
<223> n = A,T,C or G
```

<400> 199
gcttttttggg aaaaacncaa ntgggggaaa gggggnttnn tngcaagggg ataaaggggg 60

```
<210> 200
<211> 207
<212> DNA
<213> Homo sapien
```

```
<210> 201
<211> 209
<212> DNA
<213> Homo sapien
```

```
<210> 202
<211> 349
<212> DNA
<213> Homo sapien
```

<400> 202

```
<210> 203
<211> 241
<212> DNA
<213> Homo sapien
```

```
<210> 204
<211> 248
<212> DNA
<213> Homo sapien
```

```
<210> 205
<211> 505
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (505)
<223> n = A,T,C or G
```

<400> 205						
tacgctgcaa	cactgtggag	ccattcatac	aggtccctaa	ttaaggaaca	agtgattatg	60
ctacctttgc	acggttaggg	taccgcggcc	gttaaacatg	tgctactggg	caggcggtgc	120
ctctaatact	ggtgatgcta	gagggtgatgt	ttttggtaaa	caggcggggt	aagatttgcc	180
gagttccttt	tacttttttt	aacctttcct	tatgagcatg	cctgtgttg	gttgacagtg	240
gggtaataa	tgacttgttg	gttgattgta	gatatgggc	tgtaattgt	cagttcagtg	300
ttttaatctg	acgcaggctt	atgcggagga	gaatgttttc	atgttactta	tactaacatt	360
agttcttcta	tagggtgata	gattgggtcca	attgggtgtg	aggagttcag	ttatatgttt	420
gggatttttt	aggtagtggg	tgttganctt	gaacgctttc	ttaattgggtg	gctgctttta	480
rgcctactat	gggtggtaaa	tggtc				505

<400> 206

<210> 207

<211> 176

<212> DNA

<213> Homo sapien

<400> 207

<210> 208

<211> 196

<212> DNA

<213> Homo sapien

<400> 208

<210> 209

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$\langle 222 \rangle \quad (1) \dots (345)$

<223> n = A, T, C or G

<400> 209

$\langle 210 \rangle$ 210

$\langle 210 \rangle$ 210

<400> 210

```
<210> 211
<211> 454
<212> DNA
<213> Homo sapien
```

<400> 211

tgggcacctt	caatatctat	ccagcgcctc	taaattcgct	tttttcttga	ttaaaaattt	60
caccacttgc	tgtttttgct	catgtatacc	aagtagcagt	ggtgtgaggc	catgcttggt	120
ttttgattcg	atatcagcac	cgtataagag	cagtgccttg	gccattaatt	tatcttcatt	180
gtagacagca	tagtgtagag	tggatatctc	atactcatct	ggaatatttg	gatcagtgcc	240
atgttcacgc	aacattaacg	cagattcatc	ttcctggcat	tgtacggcct	ttgtcagagc	300
tgtcctcttt	ttgttgtcaa	ggacattaag	ttgacatcgt	ctgtccagca	cgagttttac	360
tactttctgaa	ttccatttgg	cagaggccag	atgtagagca	gtcctctttt	gcttgtccct	420
cttgttcaca	tcagtgtccc	tgagcataac	ggaa			454

```
<210> 212
<211> 337
<212> DNA
<213> Homo sapien
```

<400> 212

tccgttatgc	caccagaaaa	acctactgga	gttacttatt	aacatcaagg	ctggaaccta	60
tttgccctag	tcctattctga	ttcatgagca	catgggtatt	actgatcgca	ttgaaaacat	120
tgatcacctg	gggtttcttta	tttatcgact	gtgtcatgac	aaggaaaactt	acaaactgca	180
acgcagagaa	actattaaag	gtattcagaa	acgtgaagcc	agcaattggt	tcgcaattcg	240
gcattttgaa	aacaaatttg	cctggtgaaac	tttaatttgt	tcttgaacag	tcaagaaaaa	300
cattattgag	gaaaattaat	atcacagcat	aacggaa			337

```
<210> 213
<211> 715
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(715)
<223> n = A,T,C or G
```

<400> 213

tcgggtgatg	cctcctcagg	catcttccat	ccatctcttc	aagattagct	gtcccaaattg	60
tttttccctc	tcttctttac	tgataaattt	ggactccttc	ttgacactga	tgacagcttt	120
agtatccttc	ttgtcacctt	gcagacttta	aacataaaaa	tactcattgg	ttttaaaagg	180

```
<210> 214
<211> 345
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G
```

```
<210> 215
<211> 429
<212> DNA
<213> Homo sapien
```

```
<210> 216
<211> 593
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(593)
```

<400> 216

tgacacctat	gtcngcatc	tgttcacagt	tccacaaat	agccagcctt	tggccacctc	60
tctgtcctga	ggtatacaag	tatatcagga	ggtgtatacc	ttctctttctc	ttccccacca	120
aagagaacat	gcaggctctg	gaagctgtct	taggagcctt	tgggctcaga	atttcagagt	180
cttgggtacc	ttggatgtgg	tctggaagga	gaaacattgg	ctctggataa	ggagtacagc	240
cggaggaggg	tcacagagcc	ctcagctcaa	gccctgtgc	cttagtctaa	aagcagcttt	300
ggatgaggaa	gcaggttaag	taacatacgt	aagcgtacac	aggtagaaaag	tgctgggagt	360
cagaattgca	cagtgtgtag	gagtagtacc	tcaatcaatg	agggccaaatc	aactgaaaga	420
agaagaccna	ttaatgaatt	gcttangggg	aaggatcaag	gctatcatgg	agatctttct	480
aggaagatta	ttgtttanaa	ttatgaaagg	antagggcag	ggacagggcc	agaagtanaa	540
ganaacattg	cctatanccc	ttgtcttgca	cccagatgct	ggacaagggtg	tca	593

<210> 217

<211> 335

<212> DNA

<213> Homo sapien

<400> 217

tgacaccttg	tccagcatct	gacgtgaaga	tgagcagctc	agaggaggtg	tcctggattt	60
cctggttctg	tgggctccgt	ggcaatgaat	tcttctgtga	agtggatgaa	gactacatcc	120
aggacaaatt	taatcttact	ggactcaatg	agcaggtccc	tcactatcga	caagctctag	180
acatgatctt	ggacctggag	cctgatgaag	aactggaaga	caacccccaac	cagagtgacc	240
tgattgagca	ggcagccgag	atgctttatg	gattgatcca	cgccccgtac	atccttacca	300
accgtggcat	cgcccagatg	ctggacaagg	tgtca			335

<210> 218

<211> 248

<212> DNA

<213> Homo sapien

<400> 218

tacgtactgg	tcttgaaggt	cttaggtaga	gaaaaaatgt	gaatatTTTaa	tcaaagacta	60
tgtatgaat	gggactgtaa	gtacagaggg	aagggtggcc	cttatcgcca	gaagttggta	120
gatgcgtccc	cgtcatgaaa	tgttgtgtca	ctgcccgaca	tttgccgaat	tactgaaatt	180
ccgtagaatt	agtgcaaatt	ctaacgttgt	tcatactaaga	ttatggttcc	atgtttctag	240
tactttta						248

<210> 219

<211> 530

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

<221> misc feature

<222> (1) ... (530)

<223> n = A, T, C or G

<400> 219

tgacgcttgg ccacttgaca caagtagggg ataaggacaa agacccatna ggtggcctgt 60

```
<210> 220
<211> 531
<212> DNA
<213> Homo sapien
```

```
<210> 221
<211> 530
<212> DNA
<213> Homo sapien
```

```
<210> 222
<211> 578
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(578)
<223> n = A,T,C or G
```

tgtatcgacg	tagtgggtctc	cgggctacta	ggcggttgtg	tgctggtagt	acctgggttca	60
ctgaaaggcg	catctccctc	cccgctcgcg	cctgaagcag	ggggagggact	tcgcccagcc	120
aaggcagttg	tatgagtttt	acctgcggca	cttcgagacc	tctgagccca	cctccttcag	180
gagccttccc	cgattaagga	agccagggtg	aggattcctt	cctccccag	acaccacgaa	240
caaacaccca	ccccccctat	tctggcagcc	catatacatc	agaacgaaac	aaaaataaca	300
aataaacnaa	aaccaaaaaa	aaaagagaag	gggaaatgta	tatgtctgtc	catcctgttg	360
ctttagcctg	tcagctccta	nagggcaggg	accgtgtctt	ccgaatggtc	tgtgcagcgc	420
cgactgcggg	aagtatcgga	ggaggaagca	gagtcagcag	aagttgaacg	gtgggcccg	480
cggctcttg	gggctggtgt	tgtacttcga	gaccgcttcc	gctttttgtc	ttagatttac	540
gtttgtctct	tggagtggga	naccactacn	tcnatata			578

<213> Homo sapien

tgtatcgacg	tagtggtctc	ctcttgcaaa	ggactggctg	gtgaatggtt	tccctgaatt	60
atggacttac	cctaaacata	tcttatcatc	attaccagtt	gcaaaatatt	agaatgtggt	120
gtcactgttt	catttgattc	ctagaagggt	agtcttagat	atgttacttt	aacctgtatg	180
ctgtagtgtc	tgaatgcat	tttttgttt	catttttggt	tgcccaacct	gtcaattata	240
gctgcttagg	tctggactgt	cctggataaa	gctgttaaaa	tattcaccag	tccagccatc	300
ttacaagcta	attaagtcaa	ctaaatgctt	ccttgttttg	ccagacttgt	tatgtcaatc	360
ctcaattttc	gggttcattt	tgggtgcctt	aaatcttagg	gtgtgacttt	cttagcatcc	420
tgtaacatcc	attcccaagc	aagcacaact	tcacataata	ctttccagaa	gttcattgct	480
gaagcctttc	cttcacccag	cggagcaact	tgattttcta	caacttcctt	catcagagcc	540
acaagagtat	gggatatgga	gaccactacg	tcgataca			578

<213> Homo sapien

<223> n = A, T, C or G

tgatcgacg	tantgggtctc	ccaaggtgct	gggattgcag	gcattgagcca	ccactcccag	60
gtggatcttt	ttcttttatac	ttacttctatt	aggtttctgt	tattcaagaa	gtgtagtggg	120
aaaagtcttt	tcaatctaca	tggttaaata	atgatagcct	gggaaataaa	tagaaatttt	180
ttctttcatc	tttaggttga	ataaagaaac	agaaaaata	gaacatactg	aaaataatct	240
aagttccaac	catagaagaa	ctgcagaaga	aatgaagaaa	gtgatgatga	tttagatttt	300
gatattgatt	tagaagacac	aggaggagac	cactacgtcg	ataca		345

<213> Homo sapien

<400> 225

tgtatcgacg	tagtgggtctc	caaactgagg	tatgtgtgcc	actagcacac	aaagccttcc	60
aacagggacg	caggcacagg	cagttttaaag	ggaatctgtt	tctaaattaa	tttccacctt	120
ctctaagtat	tcttttctaa	aactgatcaa	ggtgtgaagc	ctgtgctctt	tcccaactcc	180
cctttgacaa	cagccttcaa	ctaacacaag	aaaaggcatg	tctgacactc	ttcctgagtc	240
tgactctgat	acgttggttct	gatgtctaaa	gagctccaga	acaccaaagg	gacaattcag	300
aatgctggtg	tataacagac	tccaatggag	accactacgt	cgataca		347

<210> 226

<211> 281

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(281)

<223> n = A,T,C or G

<400> 226

aggngnggga	ntgtatcgac	gtagtgggtct	cccaacagtc	tgtcattcag	tctgcagggtg	60
tcagtgtttt	ggacaatgag	gcaccattgt	cacttattga	ctcctcagct	ctaaatgctg	120
aaattaaatc	ttgtcatgac	aagtctggaa	ttcctgatga	ggttttacaa	agtattttgg	180
atcaatactc	caacaaatca	gaaagccaga	aagaggatcc	tttcaatatt	gcagaaccac	240
gagtggattt	acacacctca	ggagaccact	acgtcgatac	a		281

<210> 227

<211> 3646

<212> DNA

<213> Homo sapien

<400> 227

gggaaacact	tcctcccagc	cttghtaagg	ttggagccct	ctccagtata	tgctgcagaa	60
tttttctctc	ggtttctcag	aggattatgg	agtccgcctt	aaaaaaggca	agctctggac	120
actctgcaaa	gtagaatggc	caaagtttgg	agttgagtgg	ccccttgaag	ggtcactgaa	180
cctcacaatt	gttcaagctg	tgtggcggtt	tgttactgaa	actcccggcc	tccttgatca	240
gtttccctac	attgatcaat	ggctgagttt	ggtcaggagc	accccttccg	tggtccact	300
catgcaccat	tcataatatt	acctccaagg	tcctcctgag	ccagaccgtg	ttttcgctc	360
gacctcagc	cggttcgggt	cgccctgtac	tgctctctct	tgaagaagag	gagagtctcc	420
ctcaccagct	cccaccgcct	taaaaccagc	ctactccctt	agggtcatcc	catgtctcct	480
cggctatgtc	ccctgtaggc	tcatacccca	ttgcctcttg	ggtgcaaccg	tggtgggagg	540
aagtagcccc	tctactacca	ctgagagagg	cacaagtccc	tctgggtgat	gagtgtcca	600
cccccttcc	ggtttatgtc	ccttctttct	acttctgact	tgtataattg	gaaaacccat	660
aatcctccct	tctctgaaaa	gccccaggct	ttgacctcac	tgatggagtc	tgtactctgg	720
acacattggc	ccacctggga	tgactgtcaa	cagctccttt	tgaccttttt	cacctctgaa	780
gagagggaaa	gtatccaaag	agaggccaaa	aagtacaacc	tcacatcaac	caataggccg	840
gaggaggaag	ctagaggaat	agtgattaga	gacccaattg	ggaccttaatt	gggacccaaa	900
tttctcaagt	ggagggagaa	cttttgacga	tttccaccgg	tatctcctcg	tgggtattca	960
gggagctgct	cagaaacctt	taaacttgct	taaggcgact	gaagtcgtcc	aggggcatga	1020
tgagtcacca	ggagtgtttt	tagagcacct	ccaggaggct	tatcagattt	acaccccttt	1080
tgacctggca	gcccccgaaa	atagccatgc	tcttaatttg	gcatttgtgg	ctcaggcagc	1140

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```
<210> 228
<211> 419
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(419)
```

<400> 228

<210> 229

<211> 148

<212> DNA

<213> Homo sapien

<400> 229

<210> 230

<211> 257

<212> DNA

<213> Homo sapien

<400> 230

<210> 231

<211> 260

<212> DNA

<213> Homo sapien

<400> 231

<210> 232

<211> 596

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(596)
 <223> n = A,T,C or G

<400> 232
 tgctcctctt gccttaccaa ccacaaatta gaaccataat gagatgtcac ctcatacctg 60
 gtgggattaa cattatttaa aaaatcagaa gtattgacaa ggatgtgaag aaattagaac 120
 atctgtgcac tgttggtggg aatgtaaaaa aggtgtggcc actatgggta acagcatgaa 180
 ggttcctcaa aaaaaatttt ttttaattcta ctctatgac gatcttgagg ttgtttatgc 240
 aaaagaactg aaatcaggat tttgaggaaa tattcacatt cccacatcca tttctgcttt 300
 attcataata ctcaagagat ggaaacaacc taaatgtcca tcccgggatg aatggataaa 360
 cacagtgtgg tatatgcata caatggaata ttatttagtc tttaaaaaga aaaattctat 420
 catatactac aacttanatn aaccttgagg acacaatgct nagtgaaata agccacggaa 480
 ggacgaatac tgcattattc ccttatatga agtatctaaa gtgggtcaaac tcttanagca 540
 naaagtaaaa atgggtgggt gccanacagt tggttaggcn agaaganaan cctant 596

<210> 233
 <211> 96
 <212> DNA
 <213> Homo sapien

<400> 233
 tcttctgaag acctttcgcg actcttaagc tctgtggttg taaggcaaga ggagcgttgg 60
 taaggcaaga ggagcgttgg taaggcaaga ggagca 96

<210> 234
 <211> 313
 <212> DNA
 <213> Homo sapien

<400> 234
 tgtaagtcga gcagtgtgat gataaaactt gaatggatca atagttgctt cttatggatg 60
 agcaaagaaa gtagtttctt gtgatggaat ctgctcctgg caaaaatgct gtgaacgttg 120
 ttgaaaagac aacaaaagagt ttagagtagt acataaattt agaatagtag ataaacttag 180
 aatagtacat aaacttagta cataaataat gcacgaagca ggggcagggc ttgagagaat 240
 tgacttcaat ttggaaagag tatctactgt aggttagatg ctctcaaaca gcatcacact 300
 gctcgactta caa 313

<210> 235
 <211> 550
 <212> DNA
 <213> Homo sapien

<400> 235
 aacgaggaca gatccttaaa aagaatgttg agtgaaaaaa gtagaaaata agataatctc 60
 caaagtccag tagcattatt taaacatttt taaaaaatac actgataaaa attttgtaca 120
 tttcccaaaa atacatatgg aagcacagca gcatgaatgc ctatgggrtt gaggataggg 180
 gttgggagta gggatgggga taaaggggga aaataaaacc agagaggagt cttacacatt 240
 tcatgaacca aggagtataa ttatttcaac tatttgtacc wgaagtccag aaagagtgga 300
 ggcagaaggg ggagaagagg gcgaagaaac gtttttggga gaggggtccc asaagagaga 360
 ttttcgcgat gtggcgctac atacgttttt ccaggatgcc ttaagctctg caccctattt 420

003030" E303030

```
<210> 236
<211> 325
<212> DNA
<213> Homo sapien
```

```
<210> 237
<211> 373
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (373)
<223> n = A,T,C or G
```

```
<210> 238
<211> 492
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (492)
<223> n = A,T,C or G
```

<400> 238						
tagactgact	catgtcccct	ataatgctcc	caggcatcag	aaagcatctc	aaactggagc	60
tgacaccatg	gcagaggttt	caggtaagtc	acaaaagggg	tcctaaagaa	tttgcctca	120
atatcagagt	gattagaaga	agtggacaga	gctacccaag	ttaaacatat	gcgagataaa	180
aaaaatatgq	cacttgatga	cacacactac	aggaggaaaa	taaggaacat	aatagcatat	240

```
<210> 239
<211> 482
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (482)
<223> n = A,T,C or G
```

```
<210> 240
<211> 519
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(519)
<223> n = A,T,C or G
```

<210>	241
<211>	771
<212>	DNA

<223> n = A, T, C or G

tgtatcgacg	tagtgggtctc	cactcccgcc	ttgacggggc	tgctatctgc	cttcagggcc	60
actgtcacgg	ctccccggta	gaagtcactt	atgagacaca	ccagtgtggc	cttgttggct	120
tgaagctcct	cagaggaggg	tgggaacaga	gtgaccgagg	gggcagcctt	gggctgacct	180
aggacggtca	gcttgggtccc	tccgccaaac	acgagagtgc	tgctgcttgt	atatgagctg	240
cagtaataat	cagcctcgtc	ctcagcctgg	agcccagaga	tggtcagggg	ggcctgtgtg	300
ccanacttgg	agccagagaa	gcgattagaa	acccctgagg	gccgattacc	gacctcataa	360
atcatgaatt	tgggggcttt	gcctgggtgc	tgttggtacc	angagacatt	attataacca	420
ccaacgtcac	tgctggttcc	antgcaggga	aaatggttga	tcnaactgtc	caagaaaacc	480
actacgtcca	taccaatcca	ctaattgccn	gccgcctgca	ggttcaacca	tattggggaa	540
naactcccn	ccgccgtttg	ggattgncat	naacctttga	aattttttcc	tattanttgt	600
ccccctaaaa	taaaccnttg	ggcnttaate	cattgggtcc	atancttntt	tncccggttt	660
ttaaaaanttg	tttatccgc	cncccnattt	ccccccaac	tttccaaaac	ccgaaaccnt	720
tnaaatttnt	tnaaaccttg	gggggttccc	nnaattnnan	ttnaanctnc	c	771

<213> Homo sapien

tgggcacctt	caatatcggg	ctcatcgata	acatcacgct	gctgatgctg	ctgttgctgg	60
tcctctctag	gaacctctgg	attttcaaat	tctttgagga	attcatccaa	attatctgcc	120
tctcctcctt	tcctcctttt	tctaagggtct	tctggtacaa	gcgggtca		167

<213> Homo sapien

tgtggcacct	tcaatatcta	ctgatctaaa	tagtgtggtt	tgaggcctct	tgttctctggc	60
taaaaatcct	tggcaagagt	caatctccac	tttacaatag	aggtaaaaaat	cttacaatgg	120
atattcttga	caaagctagc	atagagacag	caattttaca	caagggtattt	ttcacctgtt	180
taataacagt	ggtttttcta	cacccatagg	gtgccaccaa	gggaggagtg	cacagttgca	240
gaaacaaatt	aagatactga	agacaacact	acttaccatt	tcccgatatag	ctaaccacca	300
gttcaactgt	acatgtatgt	tcttatgggc	aatcaaga			338

<213> Homo sapien

<400> 244

```
<210> 245
<211> 521
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (521)
<223> n = A,T,C or G
```

```
<210> 246
<211> 482
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (482)
<223> n = A,T,C or G
```

<210> 247
<211> 474


```
<220>
<221> misc_feature
<222> (1)...(430)
<223> n = A,T,C or G
```

<400> 250						
tggattggtc	acatggcaga	gacaggattc	caaggcagtg	agaggaggat	acaatgcttc	60
tcactagtta	ttattattta	ttttattttt	gagatgaagt	ctcgctttgt	ctcccagget	120
ggagagcggg	ggtgcgatct	tggctctctg	caacccccgc	ctcaagcaat	tctcctgtct	180
tagcctcgcg	ggtagatgga	attacaggcg	cccaccgcc	tgcccaacta	atttttttgt	240
gtcttcagta	gagacagggt	ttcgccatgt	tgggcaggct	ggtcttgaac	tcctgacctc	300
nagtgatctg	ccctcctcgg	cctcacaaag	tgctggaatt	acaggcatgg	gctgctgcac	360
ccagtcaact	tctcactagt	tatggcctta	tcattttcac	cacattctat	tggcccaaaa	420
aaaaaaaaan						430

<400>	251						
ctcca	ccatyatggg	gtcaaccgcc	atcctcgccc	tctctctggc	tgttctccaa		60
ctgtg	ccgaggtgca	gctgrtgca	tctggagcag	agggtgaaaa	gtccggggag		120
gaaga	tctcctgtaa	gggtttctga	tacaccttta	agatctactg	gatcgcttgg		180
ccagt	tgcccgggaa	aggcctggag	tggatggggc	tcattctttc	tgatgactct		240
cagat	acagcccgtc	cttccaaggc	caggtcacca	tctcagtcga	taagtcctac		300
cgcct	atctgcagtg	gagtaccaa					329

```
<210> 252
<211> 536
<212> DNA
<213> Homo sapien
```

<400> 252						
tggtactcca	ctcagcccaa	ccttaattaa	gaattaagag	ggaacctatt	actattctcc	60
caggctcctc	tgctctaacc	aggcttctgg	gacagtatta	gaaaagggatg	tctcaacaag	120
tatgtagatc	ctgtactggc	ctaagaagtt	aaactgagaa	tagcataaat	cagaccaaac	180
ttaatgggtcg	ttgagacttg	tgtcctggag	cagctgggat	aggaaaactt	ttgggcagca	240
agaggaagaa	ctgcctggaa	gggggcatca	tgtaaanaat	tacaagggga	accacacca	300
ggcccccttc	ccagctctca	gcctagagta	ttagcatttc	tcagctagag	actcacaact	360
tccttgctta	gaatgtgcca	ccggggggag	tcctgtggg	tgatgaggct	ctcaagagtg	420
agatggcat	cctatcttct	gtgtgccac	aggagcctgg	cccagactt	agcaggtgaa	480
gtttctggtc	caggctttgc	ccttgactca	ctatgtgacc	tctggtggag	taccaa	536

$\langle 210 \rangle$	253
$\langle 211 \rangle$	507

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

<400> 253
ntgttgcatg cccagtaact cgggaagctg aggcgggagg atcacctgag ctcaggagggt 60
tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtggagac 120
cctccaagac agaaaagaaa agaaaggaag ggaaagggaa agggaaaagg aaaaggaaaa 180
ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttgatct cctgacttca 240
atattatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc 300
ctcgttccat tctttacagc aagctggaag tttgggtcaag taattacaat aatagtaaca 360
aatttgaata ttatatgcca ggtgttttct attcctgctc tcacttaatt ctcaccactc 420
tgatataaat acaattgctg cgggtgtggt tggctcatgc ctgtaatccc ggcaatttgg 480
gagaccgagg tgggcgggats gcaacaa 507

<210> 254
<211> 222
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

<400> 254
ttggattggt cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60
actggccaca ctttctcctg ccgccttctc caaagctgaa gacacacaga gcaaggcgct 120
tctgttttac tccccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180
tccacatccc tgctattcag tatagtccgt ggaccaatcc aa 222

<210> 255
<211> 463
<212> DNA
<213> Homo sapien

<400> 255
tgttgcatgc cataaatgct gaaatggaaa taaacaacat gatgaggagg gattaagttg 60
gggagggagc acattaaggt ggccatgaag tttgttgga gaagtgactt ttgaacaagg 120
ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg 180
agatgggaga gggcttgga ggtgtgcaaa ataggaagga gtttgttctg gtatgagtct 240
agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttagtc agaataacat 300
taggcctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360
gagtgatggg aagccgtgga aaggggggta agcaaggagt gaaattatca gatttacagt 420
gataaaaata aattggtctg gctactgggg aaaaaaaaaa aaa 463

<210> 256

<400> 256

<210> 257

<211> 461

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

$$\langle 222 \rangle \quad (1) \dots (461)$$

<223> n = A, T, C or G

<400> 257

gngggnnnnnn	nnncaattcg	actcngttcc	cntggtance	ggtcgacatg	gccgcgggat	60
taccgcttgt	nnctgggggt	gtatggggga	ctatgaccgc	ttgtagctgg	gggtgtatgg	120
gggactatga	ccgcttgtag	mtggkgggtg	atgggggact	atgaccgctt	gtcgggtggt	180
cggataaacc	gacgcaagg	acgtgatcga	agctgcgttc	ccgctctttc	gcacgcgtag	240
ggatcatgga	cagcaatata	cgcattcgyc	tgaaggcgtt	cgaccatcgc	gtgctcgatc	300
aggcgaccgg	cgacatcgcc	gacaccgcac	gccgtaccgg	cgcgctcatc	cgcggtccga	360
tccgcgttcc	cacgcgcata	gagaagttca	cggtaaccgg	tggcccgcac	gtcgacaaga	420
atcgccgcga	gcagttcgag	gtgcgtacct	acaagcggtc	a		461

<210> 258

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (332)$

<223> n = A, T, C or G

<400> 258

tgaccgcttg	tagctggggg	tgtatggggg	actacgaccg	cttgtagctg	ggggtgtatg	60
ggggactatg	accgcttgta	gctgggggtg	tatgggggac	tatgaccgct	tgtagctggg	120
ggtgtatggg	ggactaggac	cgcttgtagc	tgggggtgta	tgggggacta	tgaccgcttg	180
tagctggggg	tgtatggggg	actacgaccg	cttgtagctg	ggggtgtatg	ggggactatg	240
accgcttgta	nctgggggtg	tatgggggac	tatgaccgct	tgtgctgcct	gggggatggg	300
aggagaqttg	tggttgggga	aaaaaaaaaa	aa			332

<21.0> 259

<211> 291

```
<220>  
<221> misc_feature  
<222> (1)...(291)  
<223> n = A,T,C or G
```

```
<210> 260
<211> 238
<212> DNA
<213> Homo sapien
```

```
<210> 261
<211> 746
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G
```

<400> 261						
ttgggcacct	tcaatatcaa	tagctaacat	ttattgagtg	tttatcgtag	cataaaacac	60
tgttctaagc	ctttaaacgt	actaattcat	ttaatgtctc	taatcacttt	agaaggtggg	120
tactagtatt	agtctcattt	acagatgcaa	catgcaggca	cagagaggtt	aattaacttg	180
cccaaggtaa	cacagctaag	aaatagaaaa	aatattgaat	ctggaaaagt	gggcttctgg	240
gtaaccacac	gagtcttcaa	tgagcctggg	gcctcactca	gtttgctttt	acaaagcgaa	300
tgagtaacat	cacttaattc	agtgagtagg	ccaaatggag	gtcagctacg	agtttctgct	360
gttcttgtag	tggactgaca	gatgtttaca	acgtctggcc	atcagtwaat	ggactgatta	420
tcattgggaw	gtgggtgggc	tgaatgttgg	ccagtgaagt	ttattcawgc	catattttta	480
tgtttaggat	gacttttggc	tggtcctagg	gcaagctctg	tctgscacgg	aacacagaat	540
wacacaggga	ccccctcaat	ttctgggtgt	gctagaacca	tgaaccactg	gttgggggaa	600
caagcgggtc	aaacctaaat	gcggcgggct	ggcagggtcc	acccatatgg	ggaaaactcc	660
cnacgcgttt	ggaatgcctn	agctngaatt	attctaanag	ttgtccncnt	aaaattagcc	720
tgggcgttaa	tcangggctn	naagcc				746

```
<220>  
<221> misc_feature  
<222> (1)...(588)  
<223> n = A,T,C or G
```

<400> 262						
tgaccgcttg	tcattctcaca	tgggggtcctg	cacgctttttg	cctttgttagg	aaacctgaca	60
tttgtctgtt	tcttctttct	cttttccttc	ccatatcctc	ctaatttacg	tttgacttgt	120
ttgctgagga	ggcaggagct	agagactgct	gtgagctcat	aggggtggga	agtttatcct	180
tcaagtcccg	cccactcatc	actgcttctc	accttccctt	gaccaggctt	acaagtgggt	240
tcttgccctgc	tttccctttg	gacccaacaa	gcccctgtaa	tgagtgtgca	tgactctgac	300
agctgtggac	tcagggtcct	tggctacagc	tgccatgtaa	aatatctcat	ccagttctcg	360
caaattgtta	aaataaccac	atttcttaga	ttccagtacc	caaatcatgt	ctttacgaac	420
tgtcctcac	accagaagt	ggcacataaa	ttcttgggga	attattactt	tttttttct	480
ctctnttnnc	gnnnngnnng	gnnnngnccag	gaattaccac	nttggaaagac	ctggcgngaa	540
ttattatatan	aqgggaqccg	attntttttc	ctaacacaaa	gcgggtca		588

```
<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G
```

<400> 263						
tttttttttt	tttggcctga	gcaactgaaa	ttatgaaatt	tccatatact	caaaagagta	60
agactgcaaa	aagattaaat	gtaaaagttg	tcttgatatac	agtaatgttt	aagataccta	120
ttanattttat	aaatggaaaa	ttagggcatt	tggatataca	agttgaaaat	tcaggagtga	180
ggttgggctg	gctgggtata	tactgaaaac	tgtcagtaca	cagatgacat	ctaaaaccac	240
aaatctgggt	ttattttagc	agtgatatgt	gtcactccca	caaagcctt	cccaattggc	300
ctcagcatac	acaacaagtc	acctccccac	agccctctac	acataaaca	attccttagt	360
ttagttcagg	aggaaatgcg	cccttttctt	tccgctctag	gtgaccgcaa	ggcccagttc	420
tcgtcaccaa	gatgttaagg	gaagtctgcc	aaagaggcat	ctgaaaggaa	ataaggggaa	480
tgggagtgac	cacaaaggaa	agccaaggan	aaactttgga	gaccgtttct	aganccttgg	540
catttcacaa	caaaactcng	gaacaaacct	tgtctcatca	atcatttaag	cccttcgttt	600
ggannagact	ttctgaactg	ggcgctgaac	ataancctca	ttgaatgtct	tcacagtctc	660
ccagctgaag	gcacaccttg	ggccagaagg	ggaatcttcc	aggtcctcaa	nacaggggctc	720
qccctttgnc						730

```
<210> 264
<211> 715
<212> DNA
<213> Homo sapien
```

<400> 264

```
<210> 265
<211> 152
<212> DNA
<213> Homo sapien
```

<400> 265

```
<210> 266
<211> 193
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(193)
<223> n = A,T,C or G
```

<400> 266

taaactccgt	ccccttctta	atcaatatgg	aggctacca	ctccacatta	ccttcttttc	60
aagggaactgt	ttccgtaact	gttgtgggta	ttcacgacca	ggcttctaaa	cctcttaaaa	120
ctccccaatt	ctggtgccaa	cttggaacaac	atgctttttt	tttttttttt	tttttttttn	180
gagacggagt	tta					193

```
<210> 267
<211> 460
<212> DNA
<213> Homo sapien
```

<400> 267

tggtgcgac	ccttaagcat	gggtgctatt	aaaaaaatgg	tggagaagaa	aatacctgga	60
atttacgtct	tatctttaga	gattgggaag	accctgatgg	aggacgtgga	gaacagcttc	120
ttcttgaatg	tcaattccca	agtaacaaca	gtgtgtcagg	cacttgctaa	ggatcctaaa	180
ttgcagcaag	gctacaatgc	tatgggattc	tcccagggag	gccaatttct	gagggcagtg	240
gctcagagat	gcccttcacc	tcccatgac	aatctgatct	cggttggggg	acaacatcaa	300
ggtgtttttg	gactccctcg	atgccagga	gagagctctc	acatctgtga	cttcatccga	360
aaaacactga	atgctggggc	gtactccaaa	gttggttcagg	aacgcctcgt	gcaagccgaa	420
tactggcatg	accataaaa	ggaggatgtg	gacgcaaca			460

<210> 268

<211> 533

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 268

tggtgcgac	cgttgataga	atagecgacgt	ggtaatgagt	gcatggcacg	cctccgactt	60
accttcgccc	gtggggaccc	cgagtacgtc	tacggcgctcg	tcacttagag	taccctctgg	120
acgcccgggc	gcgttcgatt	taccggaagc	gcgagctgca	gtgggcttgc	gccccgggcc	180
aaattctttg	gggggtttta	ggccgcgggg	aatttgaggt	atctctatca	gtatgtagcc	240
aagttggaac	agtcgccatt	cccgaatcgt	ctttctttga	atccgcaccg	cctccagcat	300
tgcctcattc	atcaacctga	aggcacgcgt	aagtgcaggt	tgtgtcttca	gcagctccac	360
tccataacta	gcgcgctcga	cctcgtcttc	gtacgcgcca	ggtccgtgcg	tgcgaattcc	420
caactccggt	gagttgcgca	tttcaagtn	cgaaactggt	cgctccacn	atttggcatg	480
ttcacgcatg	acacggaata	aactcgtcca	gtaccgggaa	tgggatcgca	aca	533

<210> 269

<211> 50

<212> DNA

<213> Homo sapien

<400> 269

tttttttttt	ttcgctgaa	ttagctacag	atcctcctca	caagcggcca	50
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<210> 270

<211> 519

<212> DNA

<213> Homo sapien

<400> 270

tggtgcgac	caaataaccc	accagcttct	tgcacacttc	gcagaagcca	ccgtcctttg	60
gctgagtcac	gtgaacggtc	agtgaagca	gocgcgtgcc	agagcagagg	tgcagcatgc	120
tgcacaccag	ctcagggtcg	acctcctcca	gcaggatgga	caggatggag	ctgccgtacg	180
tgtccaccac	ctcctggcac	tcttccgaca	gggacttcgg	cagcttcgag	cacattttgt	240
caaaagcgtc	gagtatttct	ttctcagctc	tggtgttgtc	aatcagcttg	gtcacctcct	300
tcaccaggaa	ttcacacacc	tcacagtaaa	catcagactt	tgctgggacc	tcgtgcttct	360

```
<210> 271
<211> 457
<212> DNA
<213> Homo sapien
```

```
<210> 272
<211> 102
<212> DNA
<213> Homo sapien
```

```
<210> 273
<211> 455
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (455)
<223> n = A,T,C or G
```

<210>	274
<211>	461
<212>	DNA

<400> 274

<210> 275

<211> 729

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (729)$

<223> n = A, T, C or G

<400> 275

tttttttttt	ttggccaaca	ccaagtcttc	cacgtgggag	gttttattat	gttttacaac	60
catgaaaaac	taggaagggtg	gctgttacag	caaacatttc	agatagacga	atcgccaag	120
ctcccaaac	cccaccttca	cagcctcttc	cacacgtctc	ccanagattg	ttgtccttca	180
cttgcaaatt	canggatgtt	ggaagtngac	atttnnagtn	gcnggaaccc	catcagtga	240
ncantaagca	gaantaacgat	gactttgana	nacantgat	gaagaacacn	ctacnganaa	300
ccctttctnt	cgtgttanga	tctcnngtcc	ntcactaatg	cggcccccctg	cnggtccacc	360
atttgggaga	actccccccn	cgttggtatcc	ccccttgagt	ntcccattct	ngtcccccan	420
accngncttg	ngngncantn	cnncctcnca	cctgtgttcc	ctgnngtnaa	aatnngtttt	480
nccgcncccc	naattcccac	ccnaatcaca	gcgaancnng	aaggccttcn	naagtgttta	540
angcccnng	gtttcctcnt	ntanttgcat	cctaccctcc	ccttnnnnt	tnccngttgg	600
tcgcgccctg	gncncgctn	gttcctcttt	nnggnnacia	cctngntcn	nggcncntcn	660
nnctnttcc	tnnnactagc	tngectntcc	ncnccngngn	ncanngcaca	ttncncnnac	720
tntgtnncc						729

<210> 276

<211> 339

<212> DNA

<213> Homo sapien

<400> 276

tgacctgaca	tgtagtagat	acttaataaa	tattttgtgga	atgaatggat	gaagtggagt	60
tacagagaaa	aatagaaaag	tacaaattgt	tgtcagtgtt	ttgaaggaaa	attatgatct	120
ttcccaaagt	tctgacttca	ttctaagaca	gggttagtat	ctccatacat	aattttactt	180
gcttttgaaa	atcaaatgag	ataatctatt	tagattgata	at ttattttag	actggctata	240
aactattaag	tgctagcaaa	tatacat ttt	aatctcattt	tccacctctt	gtgatatagc	300
tatgtaggtg	ttgactttta	tggatgtcag	gtcaatccc			339

<210> 277

```
<220>  
<221> misc_feature  
<222> (1) ... (664)  
<223> n = A,T,C or G
```

<400> 277						
tgacctgaca	tccataacaa	aatctttctc	cattatattc	ttctagggga	attttctttaa	60
aagcatccaa	aggaaacaaa	tgatggtaag	accgtgccaa	gtggggagca	gacaccaaag	120
taagaccaca	gattttacat	tcaacaggta	gtcacagta	ctttgcccg	cactgtgggc	180
agaaatagcc	tcctaatagt	agccctggct	cagtattgcc	atccaaatgc	gccatgctga	240
aagaggggtt	tgcatcctgg	tcagatnaag	aagcaatggt	gtgctgagga	aatcccatac	300
gaataagtga	gcattcagaa	cttgagctag	caggaggagg	actaagatga	tgtgtgagca	360
actcttttga	atggctttca	tctaaaataa	catggtacgt	gccaccagtt	tcacgagcaa	420
gtacagtgca	aacgcgaact	tctgcagaca	atccaataac	agatactcta	atttttagctg	480
ccttttaggg	cttgattaaa	tcataaatat	tagatggatc	gcaagttgta	aggntgctaa	540
aagatgatta	gtactttctg	acttgatatg	ccaggcatgt	tgttttaaan	tctgccttag	600
nccctgctta	ggggaatttt	taaagaagat	ggctctccat	gttcanggtc	aatcacnaat	660
tgcc						664

```
<210> 278
<211> 452
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(452)
<223> n = A,T,C or G
```

<400> 278						
tgacctgaca	ttgaggaaga	gcacacacct	ctgaaattcc	ttaggttcag	aagggcattt	60
gacacagagt	gggcctctga	taattcatga	aatgcattct	gaagtcaccc	agaatggagg	120
ctgcaatctg	ctgtgctttg	ggggttgcct	cactgtgctc	ctggatatca	cacaaaagct	180
gcaatccttc	ttcttcaact	aacattttgc	agtatttgct	gggattttta	ctgcagacat	240
gatacatagc	ccatagtgcc	cagagctgaa	cctctggttg	agagaagttg	ccaaggagcg	300
ggaaaaatgt	cttgaaagat	ctataggtca	ccaatgctgt	catcttacia	cttgaacttg	360
gccaatctg	tatggttgca	tgcagatctt	ggagaagagt	acgcctctgg	aagtcacggg	420
atatccaaan	ctgtctgtca	gatgtcaggt	ca			452

```
<210> 279
<211> 274
<212> DNA
<213> Homo sapien
```

<400> 279
 tttttttttt ttcggaagg caaatattact tctgcaaaag ggtgctgctt gcacttttgg 60
 ccactgcgag agcacaccaa acaaagtagg gaaggggttt ttatccctaa cgcggttatt 120

```
<210> 280
<211> 272
<212> DNA
<213> Homo sapien
```

```
<210> 281
<211> 431
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G
```

```
<210> 282
<211> 98
<212> DNA
<213> Homo sapien
```

```
<210> 283
<211> 764
<212> DNA
<213> Homo sapien
```

<220>

<400> 283

<210> 284

<211> 157

<212> DNA

<213> Homo sapien

<400> 284

<210> 285

<211> 150

<212> DNA

<213> Homo sapien

<400> 285

<210> 286

<211> 219

<212> DNA

<213> Homo sapien

<400> 286

<210> 287

<211> 196
 <212> DNA
 <213> Homo sapien

<400> 287
 attcgattct tgaggctacc aggagctagg agaagaggca tggaaacaaat ttccctcat 60
 atccatactc agaaggaacc aaccctgctg acaccttaat ttcagcttct ggcctctaga 120
 actgtgagag agtacatttc tcttggttta agccaagaga atctgtcttt tggacttta 180
 tatcatagcc tcaaga 196

<210> 288
 <211> 199
 <212> DNA
 <213> Homo sapien

<400> 288
 attcgatttc agtccagtc cagaacccac attgtcaatt actactctgt araagattca 60
 tttgttgaaa ttcattgagt aaaacattta tgatccctta atatatgcca attaccatgc 120
 taggtactga agattcaagt gaccgagatg ctagcccttg ggttcaagt atccctctcc 180
 cagagtgcac tggactgaa 199

<210> 289
 <211> 182
 <212> DNA
 <213> Homo sapien

<400> 289
 attcgattct tgaggctaca aacctgtaca gtatgttact ctactgaata ctgtaggcaa 60
 tagtaataca gaagcaagta tctgtatatg taaacattaa aaaggtagag tgaaacttca 120
 gtattataat cttagggacc accattatat atgtggtcca tcattggcca aaaaaaaaaa 180
 aa 182

<210> 290
 <211> 1646
 <212> DNA
 <213> Homo sapien

<400> 290
 ggcacgagga gaaatgtaat tccatatttt atttgaaact tattccatat ttttaattgga 60
 tattgagtga ttgggttatc aaacacccac aaactttaat tttgttaaat ttatatggct 120
 ttgaaataga agtataagtt gctaccattt tttgataaca ttgaaagata gtattttacc 180
 atctttaatc atcttggaat atacaagtcc tgtgaacaac cactctttca cctagcagca 240
 tgaggccaaa agtaaaggct ttaaattata acatatggga ttcttagtag tatgtttttt 300
 tcttgaaact cagtggctct atctaacctt actatctcct cactctttct ctaagactaa 360
 actctaggct cttaaaaatc tgcccacacc aatcttagaa gctctgaaaa gaatttgtct 420
 ttaaatatct tttaatagta acatgtattt tatggaccaa attgacattt tcgactattt 480
 tttccaaaaa agtcagggtga atttcagcac actgagttgg gaatttctta tcccagaaga 540
 ccaaccaatt tcatatttat ttaagattga ttccatactc cgttttcaag gagaatccct 600
 gcagtctcct taaaggtaga acaataactt tctatttttt tttcaccatt gtgggattgg 660
 actttaagag gtgactctaa aaaaacagag aacaaatatg tctcagttgt attaagcacg 720
 gacccatatt atcatattca cttaaaaaaa tgatttcctg tgcacctttt ggcaacttct 780

```
<210> 291
<211> 1851
<212> DNA
<213> Homo sapien
```

<400> 291						
tcatcaccat	tgccagcagc	ggcaccgtta	gtcaggtttt	ctgggaatcc	cacatgagta	60
cttcctgttt	cttcattctt	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tacttctctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatatc	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgtga	480
ggccatgctt	gttttttgat	tcgatatcag	caccgtataa	gagcagtgct	ttggccatta	540
atztatcttc	attgtagaca	gcatagtgta	gagtgggtatt	tccatactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttcctgg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
tttgcttgtc	cctcttgttc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggacgtggg	900
acctgggata	catgaaggcg	ctgtcatcgt	agtctcccca	agcgaccacg	ttgctcttgc	960
cgctcccctg	cagcagggga	agcagtggca	gcaccacttg	cacctcttgc	tcccaagcgt	1020
cttcacagag	gagtcgttgt	ggtctccaga	agtgcccacg	ttgctcttgc	cgctccccct	1080
gtccatccag	ggaggaagaa	atgcaggaaa	tgaaagatgc	atgcacgatg	gtatactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaaag	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattcacaa	acaaacactt	ttcagccaga	1260
cacaggtact	gaaatcatgt	catctgcggc	aacatggtgg	aacctaccca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aatataatth	tcctctggag	ccatatggat	gaactatgaa	ggaagaactc	cccgaagaag	1440
ccagtgcgag	agaagccaca	ctgaagctct	gtcctcagcc	atcagcgcca	cggacaggar	1500
tgtgtttctt	ccccagtgat	gcagcctcaa	gttatcccga	agctgccgca	gcacacggtg	1560
gctcctgaga	aacaccccag	ctcttccggg	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tgttgcagtt	ctcagaggaa	atgcttctaa	1740

```
<210> 292
<211> 1851
<212> DNA
<213> Homo sapien
```

```
<210> 293
<211> 668
<212> DNA
<213> Homo sapien
```

<400> 293						
cttgagcttc	caaataygga	agactggccc	ttacacasgt	caatgttaaa	atgaatgcat	60
ttcagtat	ttt tgaagataaa	atrrgtagat	ctataccttg	ttttttgatt	cgatatcagc	120
accrtataag	agcagtgett	tggccattaa	tttatctttc	atrrtagaca	gcrtagtgga	180
gagtgggtatt	tccataactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240

```
<210> 294
<211> 1512
<212> DNA
<213> Homo sapien
```

```
<210> 295
<211> 1853
<212> DNA
<213> Homo sapien
```

<400> 295						
gggtcgccca	ggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagtgggt	gaaactgggt	ggtagacgcg	180


```
<210> 301
<211> 1155
<212> DNA
<213> Homo sapien
```

```
<210> 302
<211> 2000
<212> DNA
<213> Homo sapien
```

<400> 302

atggtggttg aggttgattc catgccggct gcctcttctg tgaagaagcc atttgggtctc 60
 aggagcaaga tgggcaagtg gtgctgccgt tgcttcccc gctgcaggga gagcggcaag 120
 agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
 atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
 ggagactacg atgacagtgc ctcatggag ccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtgggtt aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
 gtcttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
 tgtgcgttaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
 accactctgc actacgtctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
 tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtgta 840
 catgagcaaa aacagcaagt cgtgaaattt ttaatcaaga aaaaagcgaa tttaaatgca 900
 ctggatagat atggaaggac tgctctcata ctgctgtat gttgtggatc agcaagtata 960
 gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
 gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
 aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaca agacttaaag 1140
 ctgacatcag aggaagagtc acaaaggttc aaaggcagtg aaaatagcca gccagagaaa 1200
 atgtctcaag aaccagaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260
 aagcatgaaa gtaataatgt gggattacta gaaaacctga ctaatggtgt cactgctggc 1320
 aatggtgata atggattaat tctcaaagg aagagcagaa cacctgaaa tcagcaattt 1380
 cctgacaacg aaagtgaaga gtatcacaga atttgcgaat tagtttctga ctacaaagaa 1440
 aaacagatgc caaaatactc ttctgaaaac agcaaccag aacaagactt aaagctgaca 1500
 tcagaggaag agtcacaaag gcttgagggc agtgaaaatg gccagccaga gctagaaaat 1560
 tttatggcta tcgaagaaat gaagaagcac ggaagtactc atgtcggatt ccagaaaaac 1620
 ctgactaatg gtgccactgc tggcaatggt gatgatggat taattcctcc aaggaagagc 1680
 agaacacctg aaagccagca atttcctgac actgagaatg aagagtatca cagtgcagaa 1740
 caaatgata ctcagaagca attttgtgaa gaacagaaca ctggaatatt acacgatgag 1800
 attctgattc atgaagaaaa gcagatagaa gtggttgaaa aaatgaattc tgagctttct 1860
 cttagttgta agaaagaaaa agacatcttg catgaaaata gtacgttgcg ggaagaaatt 1920
 gccatgctaa gactggagct agacacaatg aaacatcaga gccagctaaa aaaaaaaaaa 1980
 aaaaaaaaaa aaaaaaaaaa 2000

<210> 303

<211> 2040

<212> DNA

<213> Homo sapien

<400> 303

atggtggttg aggttgattc catgccggct gcctcttctg tgaagaagcc atttgggtctc 60
 aggagcaaga tgggcaagtg gtgctgccgt tgcttcccc gctgcaggga gagcggcaag 120
 agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
 atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
 ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
 tgggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360
 ggagactacg atgacagtgc ctcatggag ccaggtacc acgtccgtgg agaagatctg 420
 gacaagctcc acagagctgc ctggtgggtt aaagtcccca gaaaggatct catcgtcatg 480
 ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
 tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600

225	230										235					240				
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys					
				245					250				255							
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly					
				260					265				270							
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val					
				275					280				285							
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr					
				290					295				300							
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile					
305					310					315				320						
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu					
				325					330				335							
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val					
				340					345				350							
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile					
				355					360				365							
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu					
				370					375				380							
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys					
385					390					395				400						
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu					
				405					410				415							
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn					
				420					425				430							
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro					
				435					440				445							
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu					
				450					455				460							
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu					
465					470					475				480						
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp					
				485					490				495							
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu					
				500					505				510							
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp					
				515					520				525							
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys					
				530					535				540							
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala					
545					550					555				560						
Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg					
				565					570				575							
Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His					
				580					585				590							
Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn					
				595					600				605							
Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln	Ile					
				610					615				620							
Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys					
625					630					635				640						

Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 307
 <211> 800
 <212> DNA
 <213> Homo sapien

<400> 307
 atkagcttcc gcttctgaca acactagaga tccctcccct ccctcagggt atggccctcc 60
 acttcatttt tggtagataa catctttata ggacaggggt aaaatcccaa tactaacagg 120
 agaatgctta ggactctaac aggtttttga gaatgtgttg gtaagggcca ctcaatccaa 180
 tttttcttgg tccctccttg ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
 catcagtaag ggccactaaa tccgaccttc ctctgttctc cttgtggtct gggaggaaaa 300
 ctagtgtttc tgttgctgtg tcagttagca caactattcc gatcagcagg gtccaggagc 360
 cactgcagg tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcrgttttgt 420
 ctttcagatg ggaaacactc aggcataaac aggcataaac ttgaaatgca tcctaagcca 480
 atggggacaaa tttgaccac aaaccctgga aaaagaggtg gctcattttt ttgcactat 540
 ggcttggccc caacattctc tctctgatgg ggaaaaatgg ccacctgagg gaagtacaga 600
 ttacaatact atcctgcagc ttgacctttt ctgtaagagg gaaggcaaat ggagtgaat 660
 accttatgtc caagctttct tttcattgaa ggagaatata ctatgcaaag cttgaaattt 720
 acatcccaca ggaggacctc tcagcttacc cccatatact agcctcccta tagctccct 780
 tcctattagt gataagctc 800

<210> 308
 <211> 102
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(102)
 <223> Xaa = Any Amino Acid

<400> 308
 Met Gly Xaa Phe Val Phe Gln Met Gly Asn Thr Gln Ala Ser Thr Gly
 1 5 10 15
 Ser Pro Leu Lys Cys Ile Leu Ser Gln Trp Asp Lys Phe Asp Pro Gln
 20 25 30
 Thr Leu Glu Lys Glu Val Ala His Phe Phe Cys Thr Met Ala Trp Pro
 35 40 45
 Gln His Ser Leu Ser Asp Gly Glu Lys Trp Pro Pro Glu Gly Ser Thr
 50 55 60
 Asp Tyr Asn Thr Ile Leu Gln Leu Asp Leu Phe Cys Lys Arg Glu Gly
 65 70 75 80
 Lys Trp Ser Glu Ile Pro Tyr Val Gln Ala Phe Phe Ser Leu Lys Glu
 85 90 95
 Asn Thr Leu Cys Lys Ala
 100

005555-005555

<212> DNA

<213> Homo sapiens

<400> 313

ggacagagaa ttaaaaccct cagcaaaaaca ggcatagaag ggacatacct taaagtaata 60
 aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
 tttcctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
 tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
 ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
 ctgcgccagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccgtgtcc 360
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
 ggagttcttc cttcatagtt catccatatg gctccagagg aaaattatat tattttgtta 480
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
 ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
 aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
 gctttctcca ccttgtctga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
 ccatcgtgca tgcactcttc atttctctgca tttcttcctc cctggatgga cagggggagc 780
 ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
 agcaagaggt gcaagtgggt ctgccactgc ttccccctgt gcagggggag cggcaagagc 900
 aacgtggctg cttggggaga ctacgatgac agcgccttca tggatcccag gtaccacgtc 960
 catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt cccagaaaag 1020
 gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
 gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
 cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
 tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcaactgatcc aaatattcca 1260
 gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaattggc 1320
 aaagcactgc tcttatacgg tgetgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
 ctgctacttg gtatacatga gcaaaaaacag caagtgggtg aatttttaat caagaaaaaa 1440
 gcgaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgetgttgt 1500
 ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
 ctggaaagac ggccagagag tatgtgttt ctagtcatca tcatgtaatt tgccagttac 1620
 tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagAAC 1680
 aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaagt gaaaacagcc 1740
 agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
 tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

<210> 314

<211> 879

<212> DNA

<213> Homo sapiens

<400> 314

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 tgcaagtggg gctgccactg cttccccctg tgcaggggga gcggaagag caacgtggct 180
 gcttggggag actacgatga cagcgccttc atggatccca ggtaccacgt ccatggagaa 240
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 ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
 cttaattgtc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
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<210> 315
<211> 293
<212> PRT
<213> Homo sapiens
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Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
275 280 285

Val Ile Ile Met
290

<210> 316
<211> 584
<212> DNA
<213> Homo sapiens

<400> 316
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gaggctctcc tgtgggatgt aaatttcaag ctttgcatag tgtattctcc ttcaatgaaa 240
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<210> 317
<211> 829
<212> DNA
<213> Homo sapiens

<400> 317
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agaatgctta ggactctaac aggtttttga gaatgtgttg gtaaggggcca ctcaatccaa 180
tttttcttgg tctccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
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cactgcagggt tcttgggcag ggggagaaac aaaacaaacc aaaaccatgg gcagttttgt 420
ctttcagatg ggaaacactc aggcataaac aggctcacct ttgaaatgca tccaaagcca 480
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<210> 324
<211> 529
<212> PRT
<213> Homo sapiens
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<400> 324																
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				20					25			30				
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	
				35					40			45				
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	
				50					55			60				
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	
				65					70			75				
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	
				85					90			95				
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	
				100					105			110				
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	
				115					120			125				
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Pro	Leu	Val	Pro	Arg	Gly	Ser	
				130					135			140				
Pro	Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	
				145					150			155				
Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	
				165					170			175				
Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	
				180					185			190				
Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	
				195					200			205				
Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	

